



# TRUSCON STANDARD CASEMENTS

MODEL NUMBER FIVE



## TRUSCON ENGINEERING AND SALES OFFICES

Albany, N. Y., 75 State Street  
 Altoona, Pa., 231 Central Trust Building  
 Atlanta, Ga., 601 Rhodes-Haverty Building  
 Baltimore, Md., 1507 Standard Oil Building  
 Birmingham, Ala., 513 North 21st Street  
 Boston, Mass., 260 Tremont Street  
 Brooklyn, N. Y., 26 Court Street  
 Buffalo, N. Y., 204 Sidway Building  
 Charleston, W. Va., 720 Kahowha Valley Building  
 Chattanooga, Tenn., 1222 James Building  
 Chicago, Ill., 228 North LaSalle Street  
 Cincinnati, Ohio, 505 Walnut Street  
 Cleveland, Ohio, 6100 Truscon Avenue  
 Columbus, Ohio, 1000-04 Atlas Building  
 Dallas, Texas, 413 Construction Industries Bldg.  
 Dayton, Ohio, 802 Harries Building  
 Denver, Colorado, 430 Cooper Building  
 Des Moines, Iowa, Hubbell Building  
 Detroit, Michigan, 615 Wayne Street  
 Erie, Pa., 1207 French Street  
 Fort Wayne, Ind., 424 Cal-Wayne Building  
 Grand Rapids, Mich., 301 McMullen Building  
 Greensboro, N. C., 830 Jefferson Standard Life Bldg.  
 Harrisburg, Pa., 600-2 North Second Street  
 Hartford, Conn., 983 Main Street  
 Hempstead, L. I., 250 Fulton Avenue  
 Houston, Texas, 1701 Oliver Street  
 Indianapolis, Ind., 812 Union Title Building  
 Jacksonville, Fla., 324 Hildebrandt Building  
 Kansas City, Mo., 611 Bryant Building  
 Los Angeles, Calif., 5480 East Slauson Avenue  
 Louisville, Ky., 621 Marion E. Taylor Building

Madison, Wisc., 408 West Gorham Street  
 Memphis, Tenn., c/o Fisher Lime & Cement Co.  
 Milwaukee, Wisc., 1200 Straus Building  
 Minneapolis, Minn., 611 Metropolitan Bank Bldg.  
 Moline, Ill., 202 Moline State Trust Building  
 Newark, N. J., 605 Broad Street  
 New Haven, Conn., 42 Church Street  
 New Orleans, La., 448 Canal Bank Building  
 New York, N. Y., 31 Union Square  
 Norfolk, Va., 22nd and Manteo Sts.  
 Oklahoma City, Okla., 317-319 Magnolia Bldg.  
 Omaha, Neb., 901 World-Herald Building  
 Philadelphia, Pa., 1505 Race St.  
 Pittsburgh, Pa., 523-6 Grant Building  
 Portland, Oregon, 449-457 Kerby Street  
 Providence, R. I., 87 Weybosset Street  
 Richmond, Va., 15 North 6th Street  
 Rochester, N. Y., 614 Temple Building  
 Roswell, N. M., County Engineer's Office  
 St. Louis, Mo., 1304 Ambassador Building  
 Salt Lake City, Utah, 1526 S. West Temple Street  
 San Antonio, Texas, 901 Travis Building  
 San Francisco, Calif., 74 New Montgomery Street  
 Seattle, Wash., 310-11 Seaboard Building  
 Scranton, Pa., 547 Moosic Street  
 South Bend, Ind., 222 Christman Building  
 Syracuse, N. Y., 440 Gurney Building  
 Tampa, Fla., c/o J. W. Phillips & Co.  
 Toledo, Ohio, 312 Richardson Building  
 Tulsa, Okla., 315 Philcade Bldg.  
 Washington, D. C., 801 Hill Building  
 Wichita, Kan., 808 Brown Building  
 Youngstown, Ohio, Albert Street

TRUSCON RAILROAD DEPARTMENT, YOUNGSTOWN, OHIO

PRESSED STEEL DIVISION, Offices and Plant, CLEVELAND, OHIO

FOREIGN TRADE DIVISION, 90 West Street, NEW YORK CITY

TRUSCON STEEL COMPANY OF CANADA, Limited, WALKERVILLE, ONT.

THE TRUSCON LABORATORIES, Offices and Plant, DETROIT, MICHIGAN

(For Waterproofings, Floor Hardeners, Industrial Maintenance Products and Cement Roofing Tile)

## TRUSCON WAREHOUSES

Baltimore, Md.  
 Birmingham, Ala.  
 Boston, Mass.  
 Buffalo, N. Y.  
 Chicago, Ill.  
 Cincinnati, Ohio  
 Cleveland, Ohio  
 Dallas, Texas  
 Detroit, Mich.

Garden City, N. Y.  
 Greensboro, N. C.  
 Houston, Texas  
 Indianapolis, Ind.  
 Jacksonville, Fla.  
 Kansas City, Mo.  
 Long Island City, N. Y.  
 Los Angeles, Calif.  
 Milwaukee, Wisc.

Newark, N. J.  
 Norfolk, Va.  
 Omaha, Neb.  
 Philadelphia, Pa.  
 Portland, Oregon  
 San Francisco, Calif.  
 St. Louis, Mo.  
 St. Paul, Minn.  
 Youngstown, Ohio

Executive Offices and Main Plant:

YOUNGSTOWN, OHIO

Factories: Cleveland, Detroit, Los Angeles, Walkerville, Japan

# TRUSCON STANDARD CASEMENTS

MODEL NUMBER FIVE

*Windows of Beauty*



CATALOG No. 175

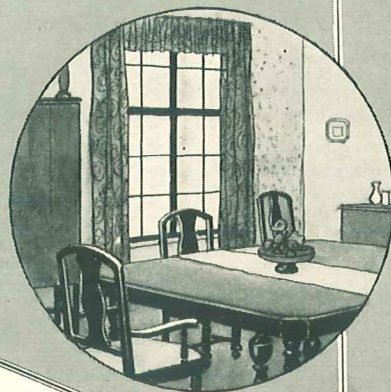
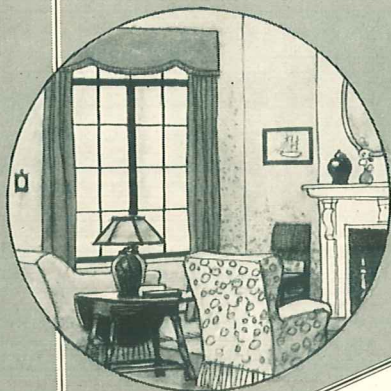
1930

TRUSCON STEEL COMPANY, YOUNGSTOWN, OHIO

*Warehouses and Offices in all Principal Cities*

*Dealers Everywhere*





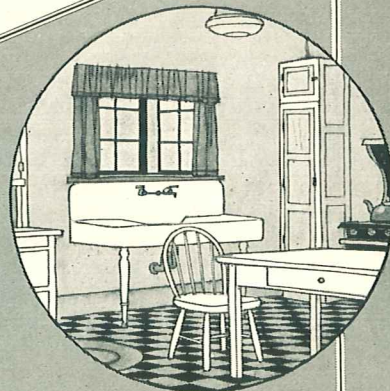
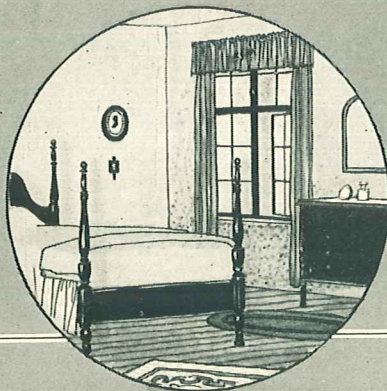
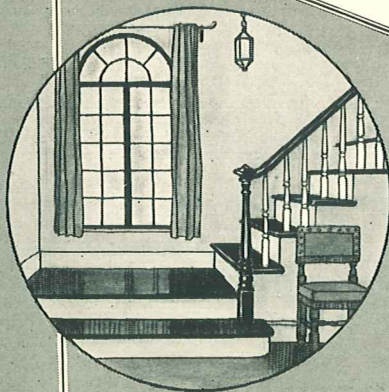
## CASEMENTS

*Invite Fresh Air and Sunlight*

**G**OOD TASTE and individuality express themselves in windows, more perhaps, than in any other detail of home appointment, and in turn the windows play an important part in adding beauty to the interior and bringing the breath of out-of-doors within the four walls.

This is why Casements for all rooms are so popular. Their trim outlines and cheery atmosphere bring to the modern building all the charm and hominess of period construction. Casements are the true aristocrats of architecture; they conform perfectly to modern styles and present day requirements.

Practical and economical, too, are these sturdy windows which, with all their grace and slenderness of line, never stick or warp. They not only admit air and sunlight—they control ventilation and lighting of all rooms. Drafts and glare are eliminated; draperies and decorations are protected from dust and from the undesirable elements.





## SUPERIOR FEATURES

CONSTANT effort toward the improvement in design and product resulted in the new single and one-piece combination Truscon Casements, Model No. 5 . . . Combinations do away with building up fixed and hinged units in the field, and assembling them in separate frames to fill the desired wall opening.

The new Casements are substantial in construction, economical in application, strong and rigid, fireproof, with no question of shrinkage, warping, swelling or decay.

### TRUSCON SPECIFICATION STEEL

Casements are made from specially designed, rolled Zee bars.

### POSITIVE WEATHERING AND ANCHORAGE

Sash and frames are fabricated of two Zee-shape sections that provide a broad double contact positive weathering surface.

Heavy, continuous anchors attached to head and jams insure further weathertightness and perfect anchorage and alignment in wall.

### FLUSH JOINTS AND INTERSECTIONS

All surfaces of joints between muntins and sash stiles and rails and intersections of muntins are flush on the inside.

### MUNTINS

Horizontal and vertical muntins are continuous between stiles and rails and are of the same size.

### WELDED CORNERS

All corners are mitered and electrically butt welded, making the frame members one continuous bar. The mechanical process of welding insures exact over-all size and squareness of all corners.

### WOODEN FRAMES

The use of wood frames is to be avoided but Truscon Casements are easily adapted to such conditions by the omission of the continuous jamb and head angles, and securing Casements in place by using wood screws in holes provided for bolts.

### CASEMENT COMBINATIONS

All units are completely assembled in the factory—eliminating all costly field labor.

### HARDWARE

Truscon Casements are equipped with artistically designed handles, black lacquer finish. Chromium or Butler Nickel finish at extra cost.

### HINGES

For side hinged units two heavy extension type friction hinges of heavy, hot rolled sections are used—riveted to sash and welded to frame which gives additional reinforcing to the corners of frame.

The friction feature of the hinge applies the same amount of friction at the top and bottom and allows the casement to be held in any desired position without the use of mechanical adjusters.

The use of extension hinges allows for the easy cleaning of the outside of glass.

### ADJUSTERS

Three types of mechanical adjusters are applicable to Truscon Casements. They are:

- (1) Sliding stay bar adjuster that is of the automatic locking type.
- (2) Thumb screw adjuster.
- (3) Geared type under-screen adjuster.

The bottom rails of both sash and frame will be provided for adjusters, when called for, at no extra charge.

### CASEMENT SCREENS

Casements are screened on the inside, offering advantages in point of cleanliness and protection from the elements.

Two types of Casement Screens have been developed for exclusive use with Truscon Standard Steel Casements. See pages 37 and 41.

### DRAPING

No interference. Casements open out.

### GLAZING

Outside; slope of putty acts as water drainage. Spring wire clips for holding glass supplied with casement.

### PLATE GLASS

Depth great enough to permit if desired.

### LEADED GLASS

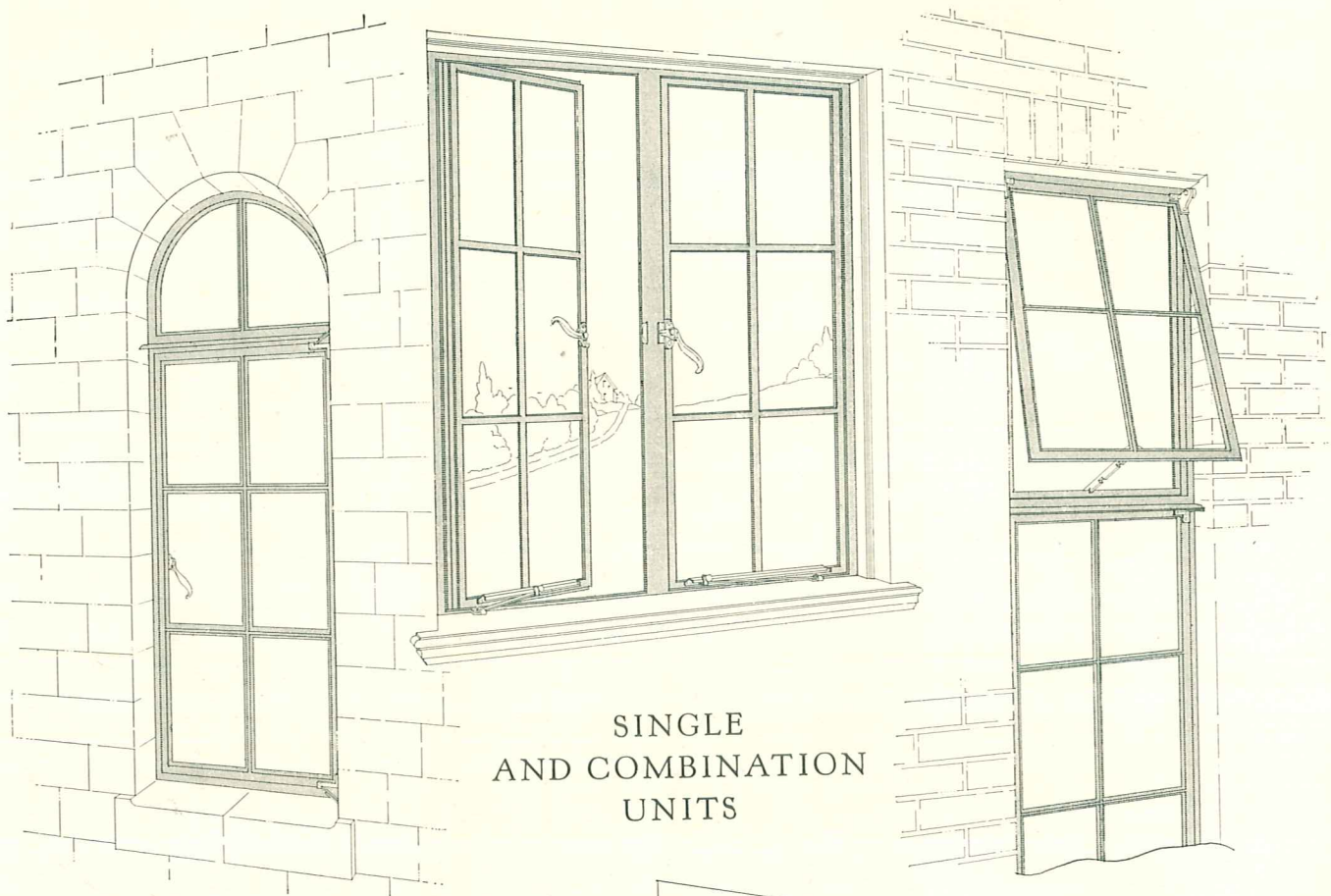
Muntins can be omitted and panels of any desired design can be used and set in sash frame.



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*Truscon Standard Steel Casements ~ Model No. 5*

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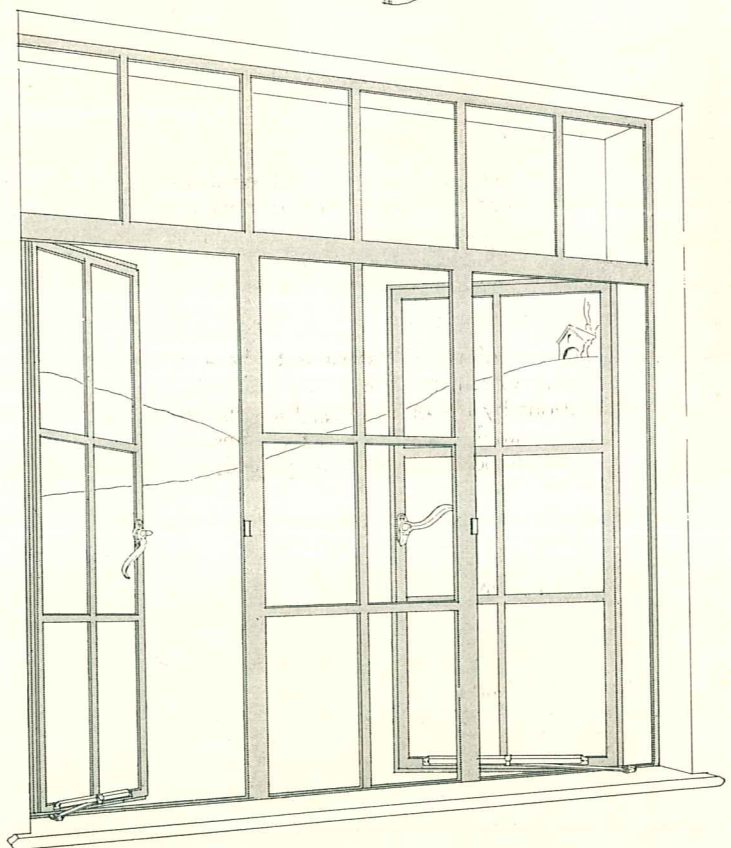


SINGLE  
AND COMBINATION  
UNITS

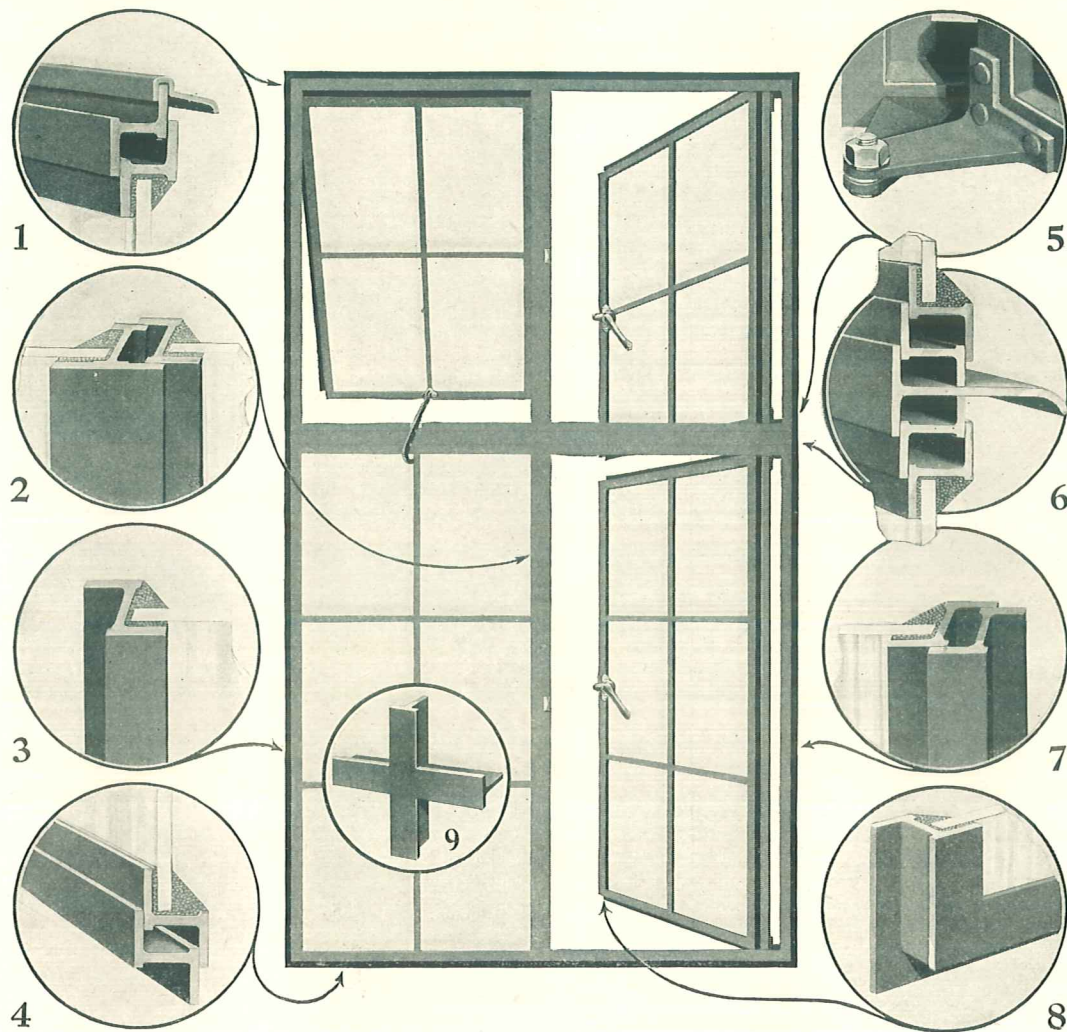
 FACTORY built single or combination units Model No. 5 Casements are delivered complete ready to fill the opening and can be set up in place with a minimum of field labor, ready for the glazier.

They are all painted with a priming coat, even in the concealed spaces that cannot be reached when the painter applies the final coats, and it is only necessary to attach the hardware, which is shipped complete with the casement, to produce the finished opening.

The new Casements are beautiful in appearance with the latitude so desired by the architect and builder in the execution of the design, permanent and foolproof, to give lasting satisfaction and greatest investment value.







## CONSTRUCTION DETAILS

- 1 CONTINUOUS HEAD DRIP showing the shape and proper position when attached, forming a positive drip over swing portions of unit.
- 2 VERTICAL MEETING RAIL of heavy hot-rolled section, smoothly finished on inside. Used in all combination units having both fixed and swing portions. The same detail as Transom Bar in combination with swing or fixed transoms.
- 3 ZEE-BAR SECTIONS used on outside frame members of all combinations and around swing portion of casement.
- 4 SILL SECTIONS of Zee bars affording ease of erection in any type of construction; showing the wide lap double contact for positive weathering.
- 5 FRICTION TYPE EXTENSION HINGE allows for the easy cleaning of windows on the outside and when adjusted has the proper amount of friction to hold the ventilator open in any desired position without the use of an adjuster.
- 6 TRANSOM BAR, Tee section used between upper and lower units in transom combinations, forming a drip over lower ventilators.
- 7 STILES of sash and frame of Zee sections showing the wide lap double contact and insulating air space and baffle that insures proper weathering.
- 8 CORNERS OF SASH AND FRAME are mitered, electrically butt welded and ground smooth, making the frame members one continuous piece. This process insures exact overall size and squareness of all corners.
- 9 MUNTIN INTERSECTIONS made with a mitered and mechanically interlocked joint obtaining the maximum strength of muntin bars and securing a neat, flush surface on the inside. Vertical and horizontal muntins are of the same size affording a uniform putty face and permitting a satisfactory glazed installation with plate or leaded glass.



Truscon Standard Steel Casements ~ Model No. 5



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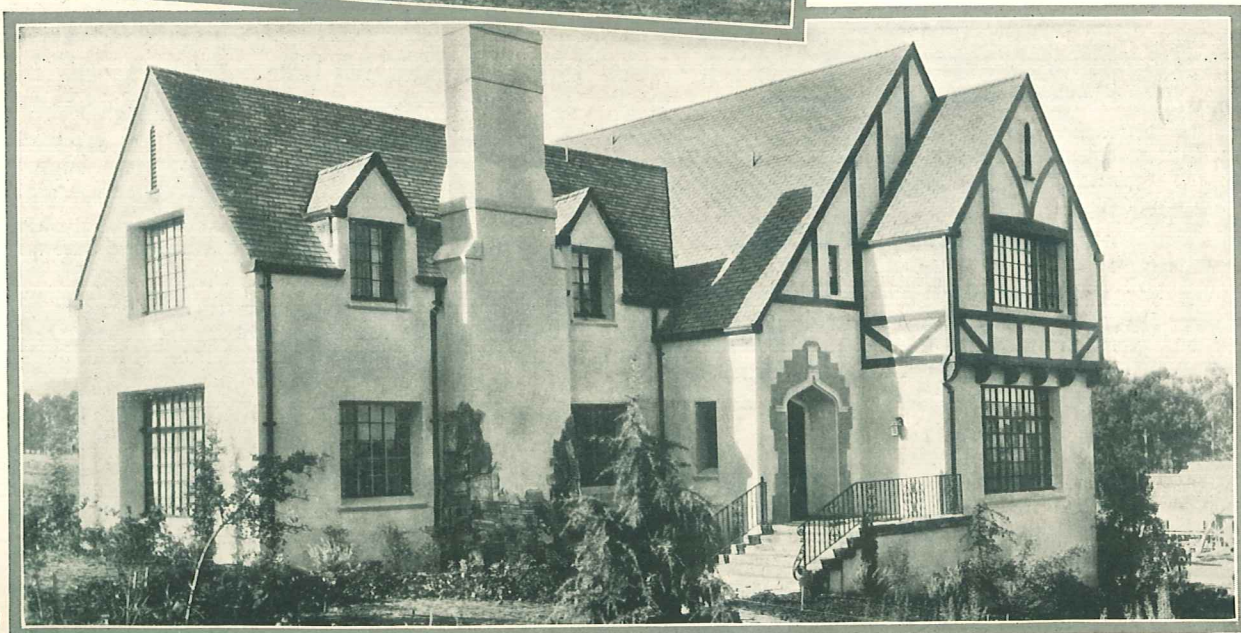
④



②

Model Homes  
with Truscon Casement  
Installations

1. Haynes Manor, Georgia
2. Dearborn, Michigan
3. Aurora Hills, Virginia
4. San Mateo, California



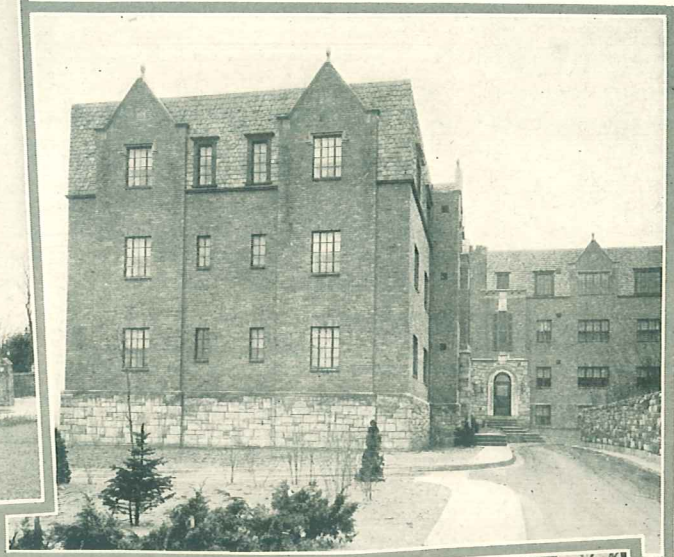
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*Truscon Standard Steel Casements ~ Model No. 5*



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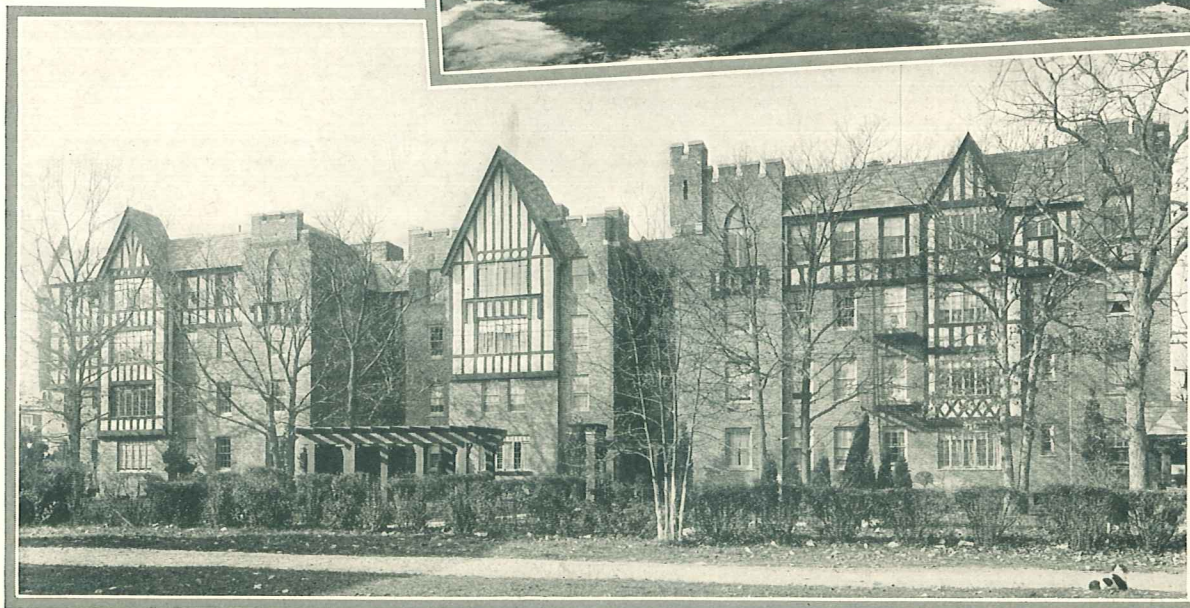


②

1. J. R. Hummel Residence  
Hillcrest, Richmond, Virginia  
*C. M. Lindner, Architect*  
*Allen J. Saville, Contractor*
2. Ruth Garden Apartments  
Pittsburgh, Penna.  
*Alexander Sharove, Architect*  
*Phillip Goodman, Contractor*
3. Charles Reed Residence  
Cleveland, Ohio  
*Dickeson & Rhodes, Architects*  
*R. V. Clap, Builder*
4. Scanlon Apartments  
Long Island, New York  
*Blum & Katz, Architects*  
*Boudin Construction Company*



③



④

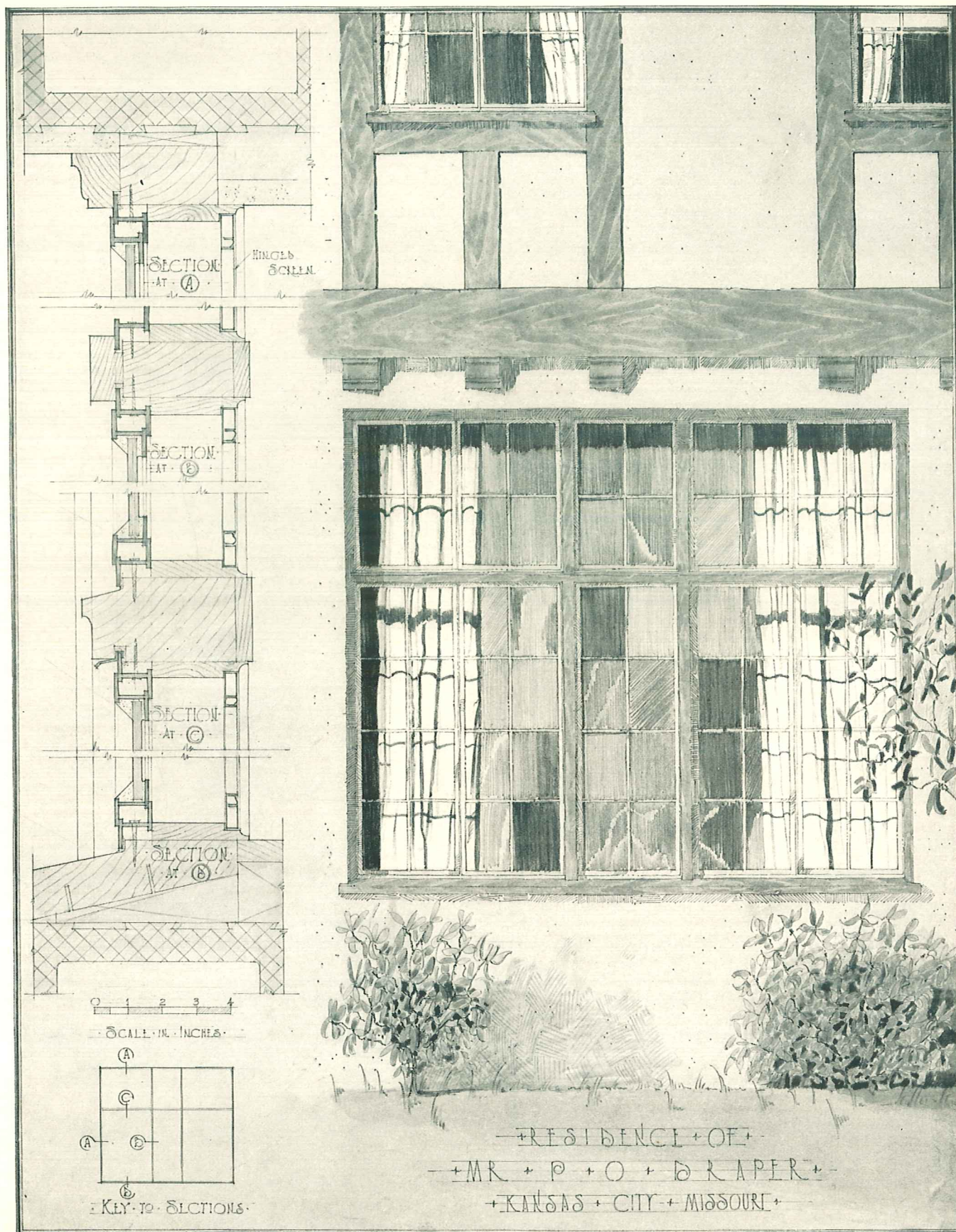




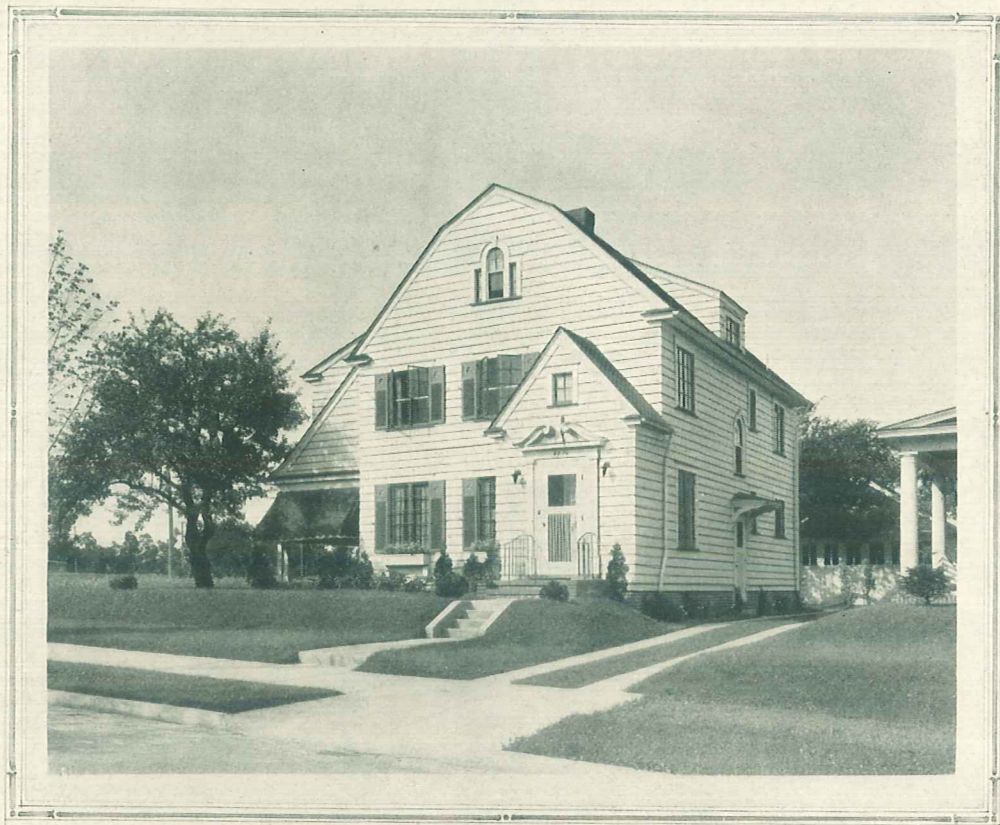
RESIDENCE OF  
MR. P. O. DRAPEAU  
KANSAS CITY, MISSOURI  
EDWARD W. TANNER  
ARCHITECT  
KANSAS CITY, MISSOURI



Truscon Standard Steel Casements ~ Model No. 5



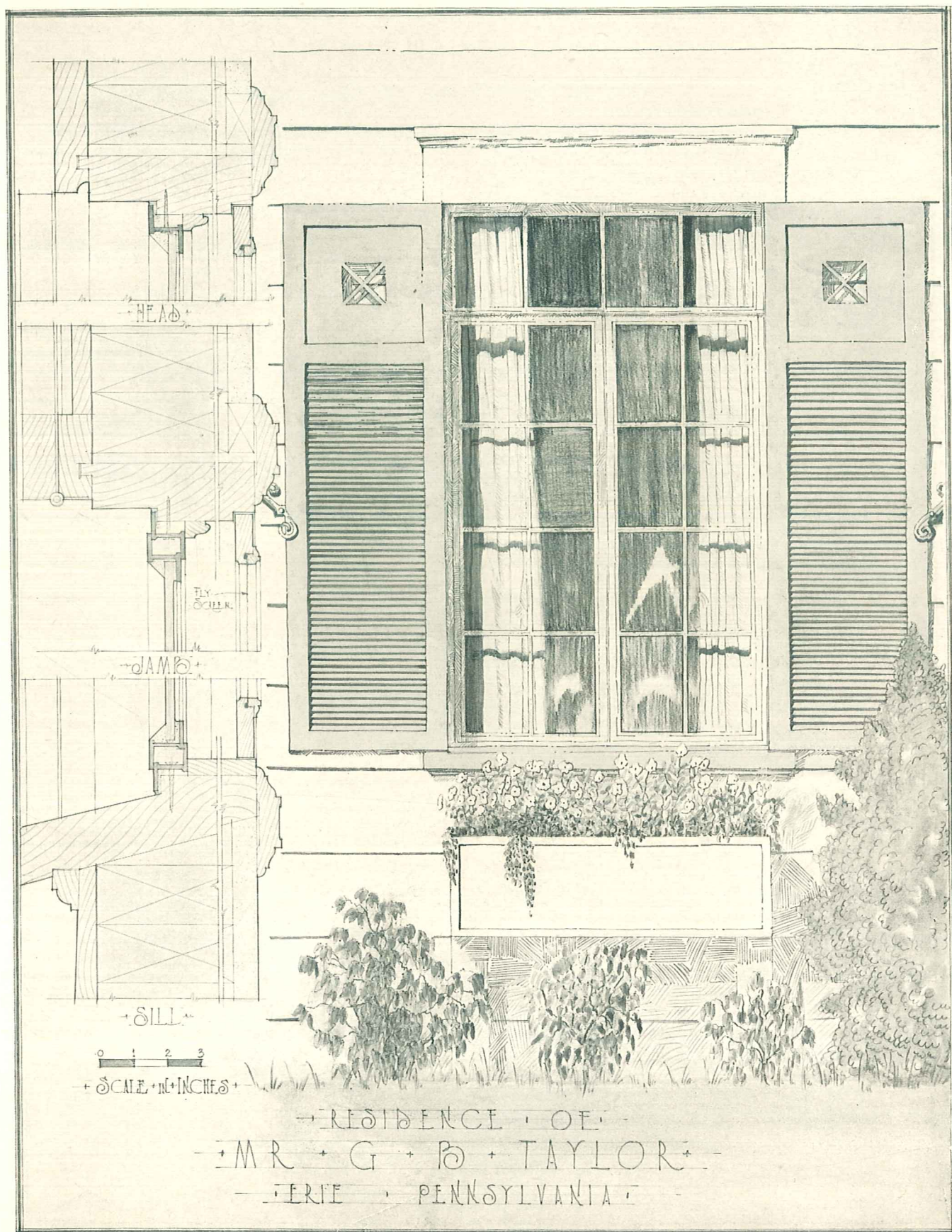




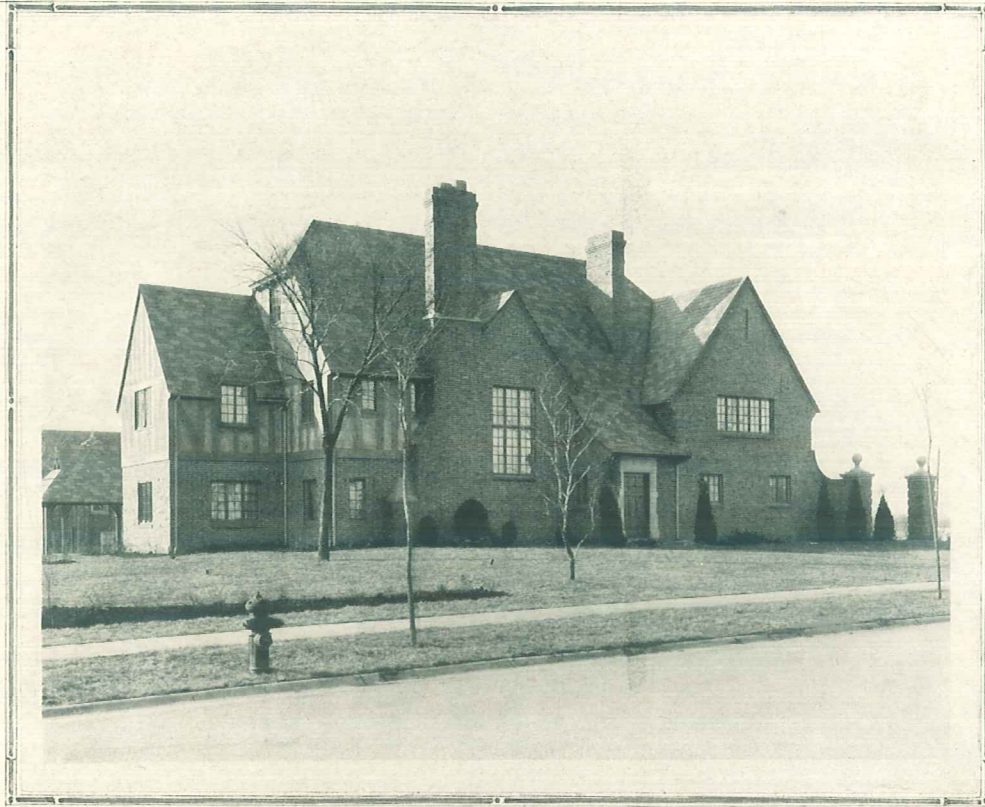
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MR. G. B. TAYLOR  
ERIE, PENNSYLVANIA  
FULLER & STICKLER  
ARCHITECTS  
ERIE, PENNSYLVANIA



Truscon Standard Steel Casements ~ Model No. 5.



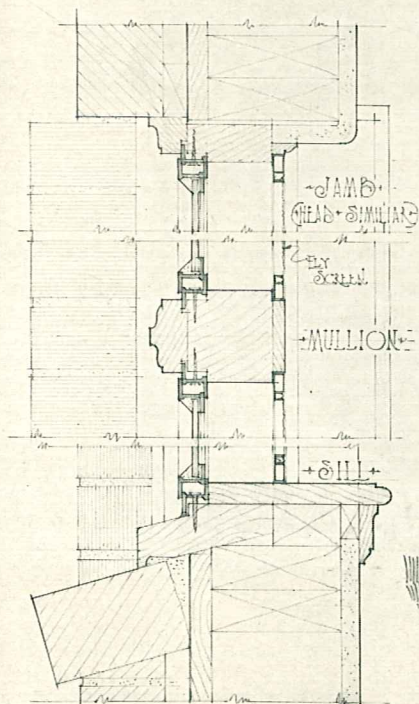
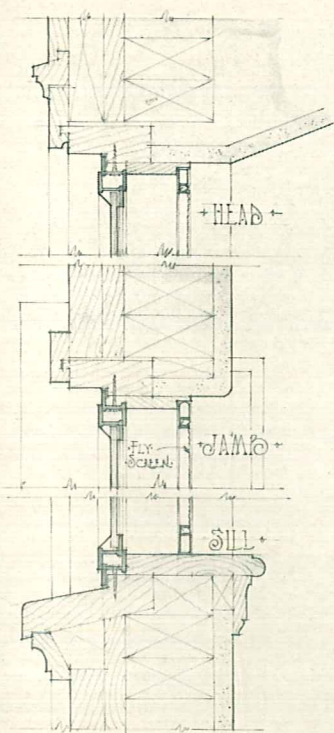




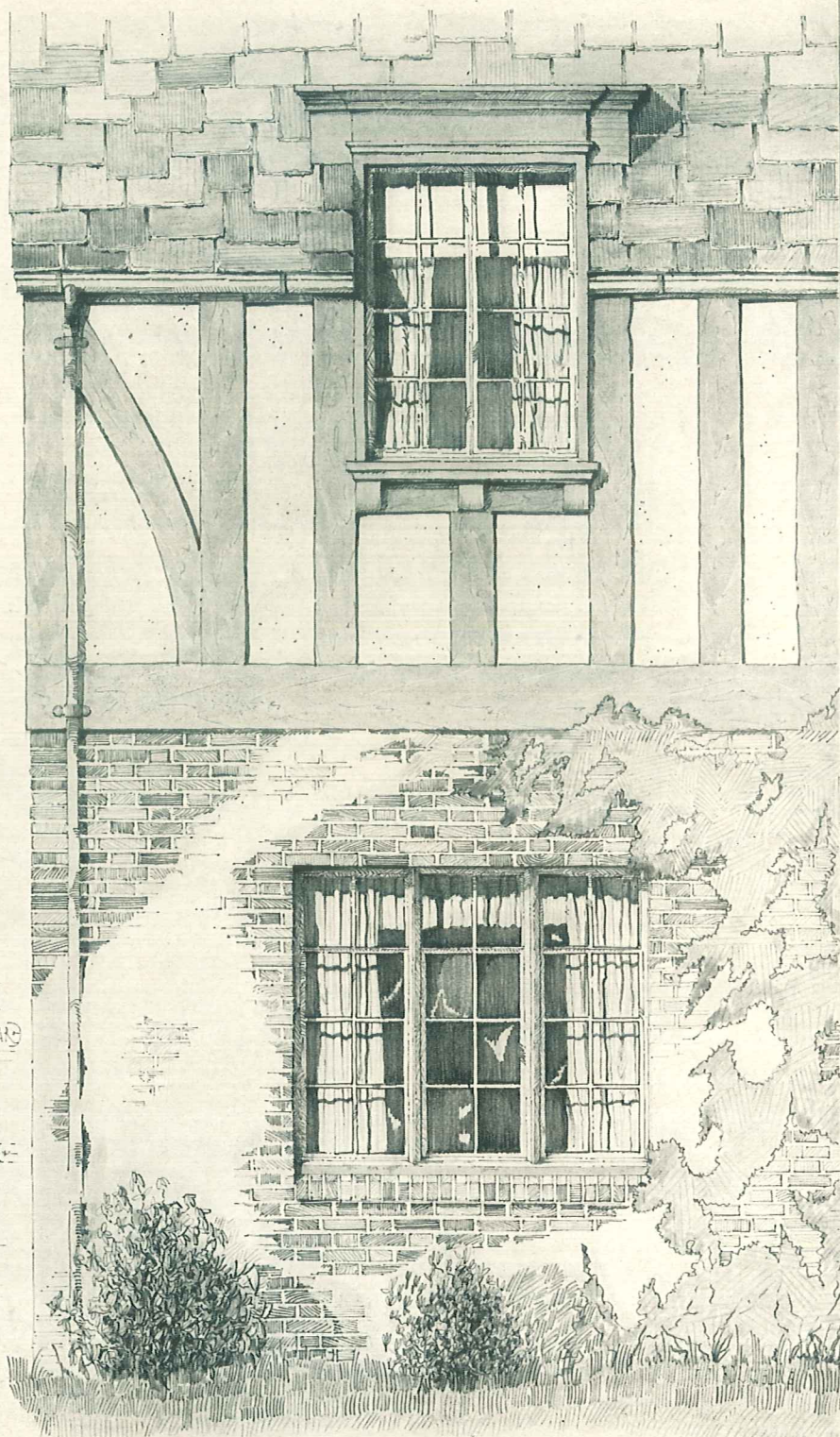
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MR. R. L. GRAY  
KANSAS CITY, MISSOURI  
EDWARD W. TANNER  
ARCHITECT  
KANSAS CITY, MISSOURI



Truscon Standard Steel Casements ~ Model No. 5.



0 1 2 3 4 5 6 7  
SCALE IN INCHES



- RESIDENCE OF -  
+ MR + R + L + GRAY +  
- KANSAS CITY, MISSOURI -





• E R I E • M O D E L • H O M E •

• E R I E • P E N N S Y L V A N I A •

• C • C L E M E N T • K I R B Y •

• A R C H I T E C T •

• E R I E • P E N N S Y L V A N I A •



Truscon Standard Steel Casements ~ Model No. 5



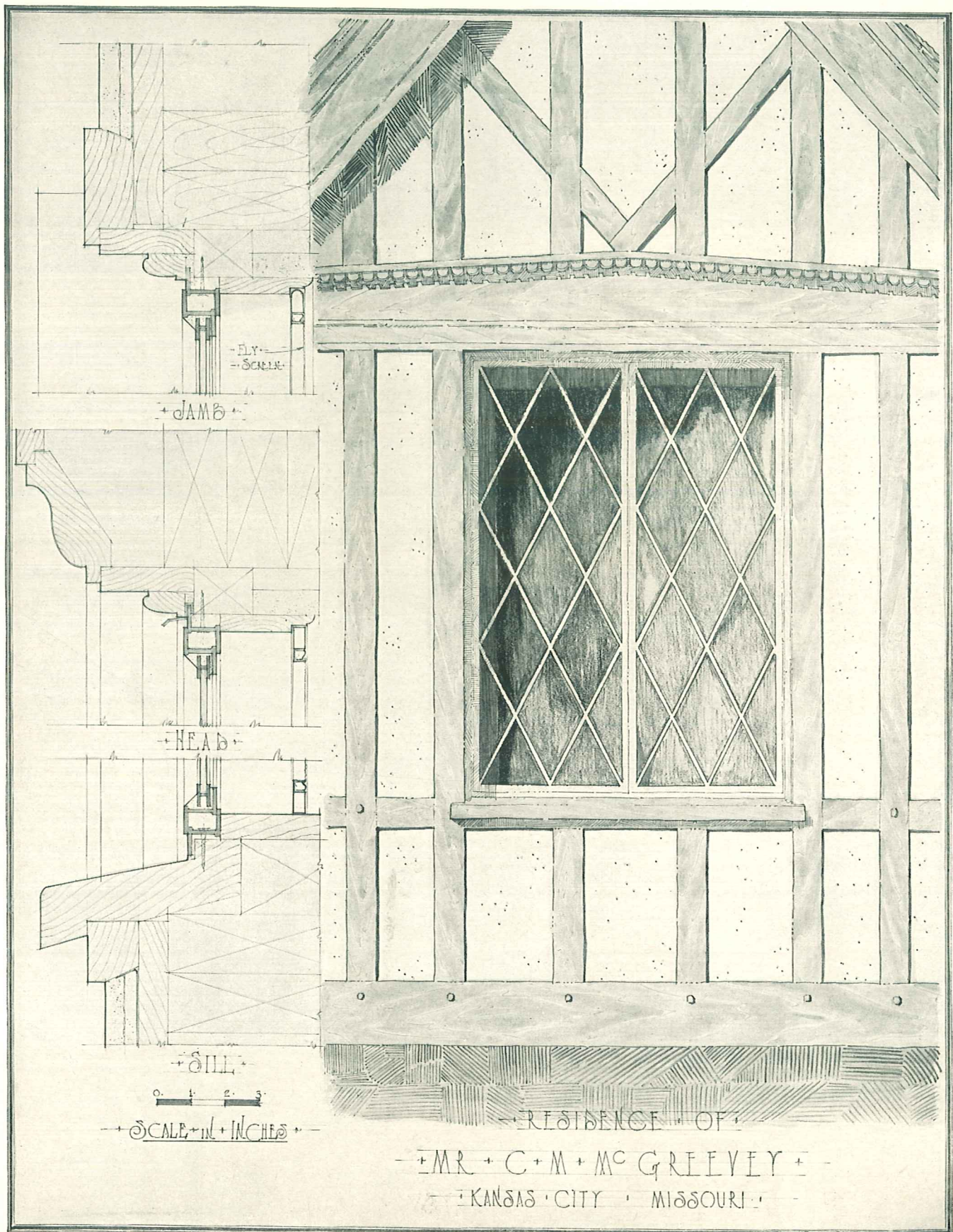




RESIDENCE OF  
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KANSAS CITY, MISSOURI  
BUCKLEY & VAN BRUNT  
ARCHITECTS  
KANSAS CITY, MISSOURI

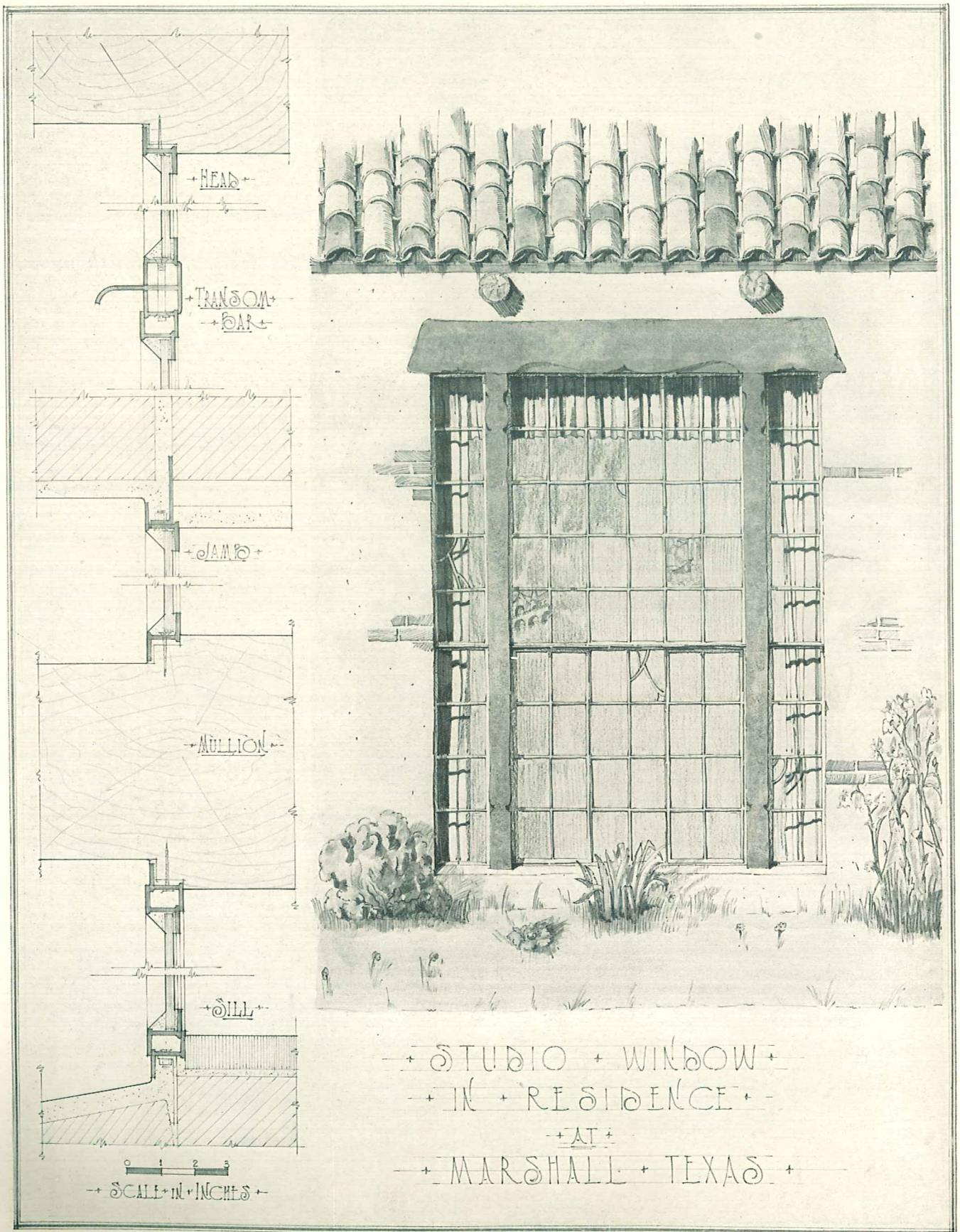


Truscon Standard Steel Casements ~ Model No. 5



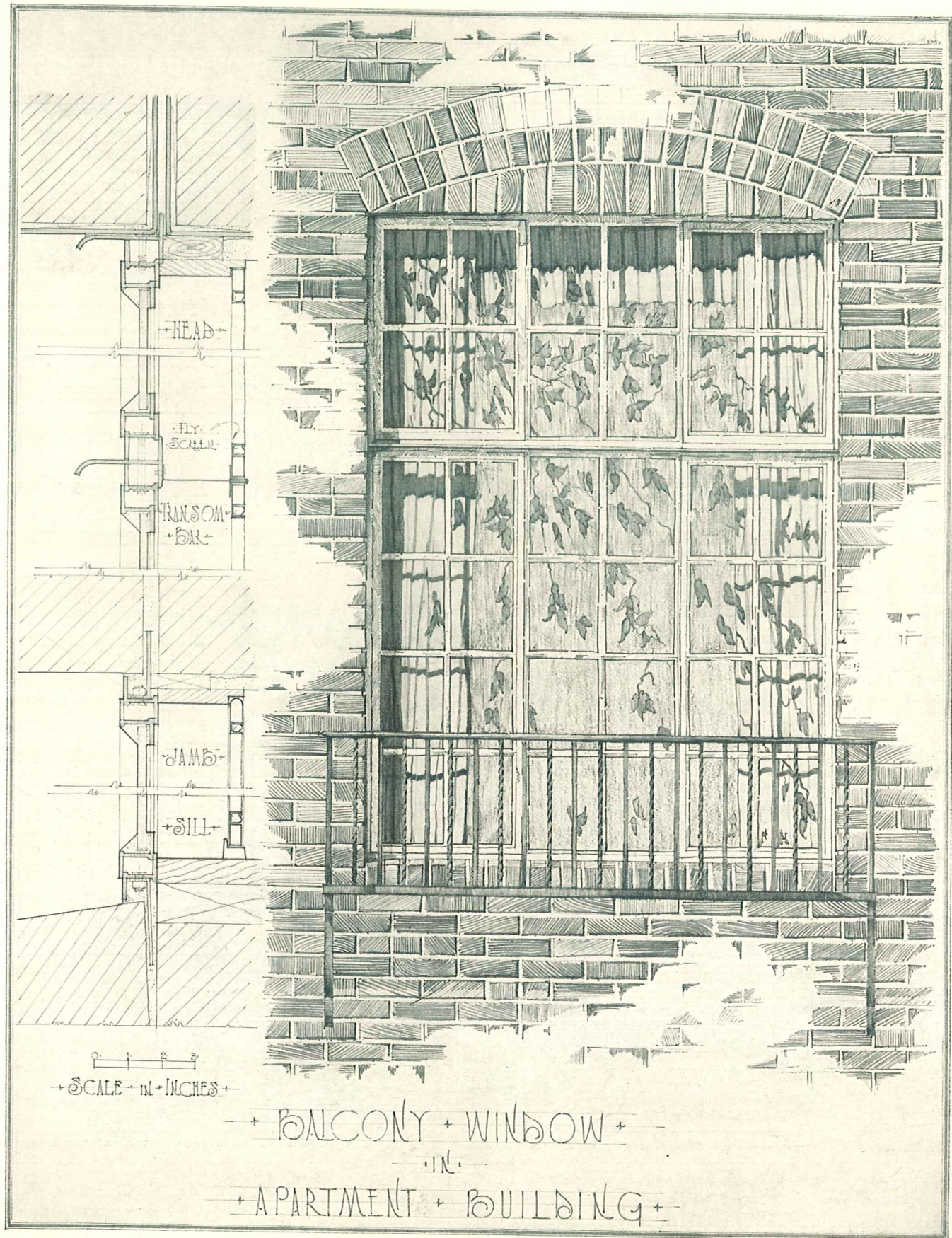


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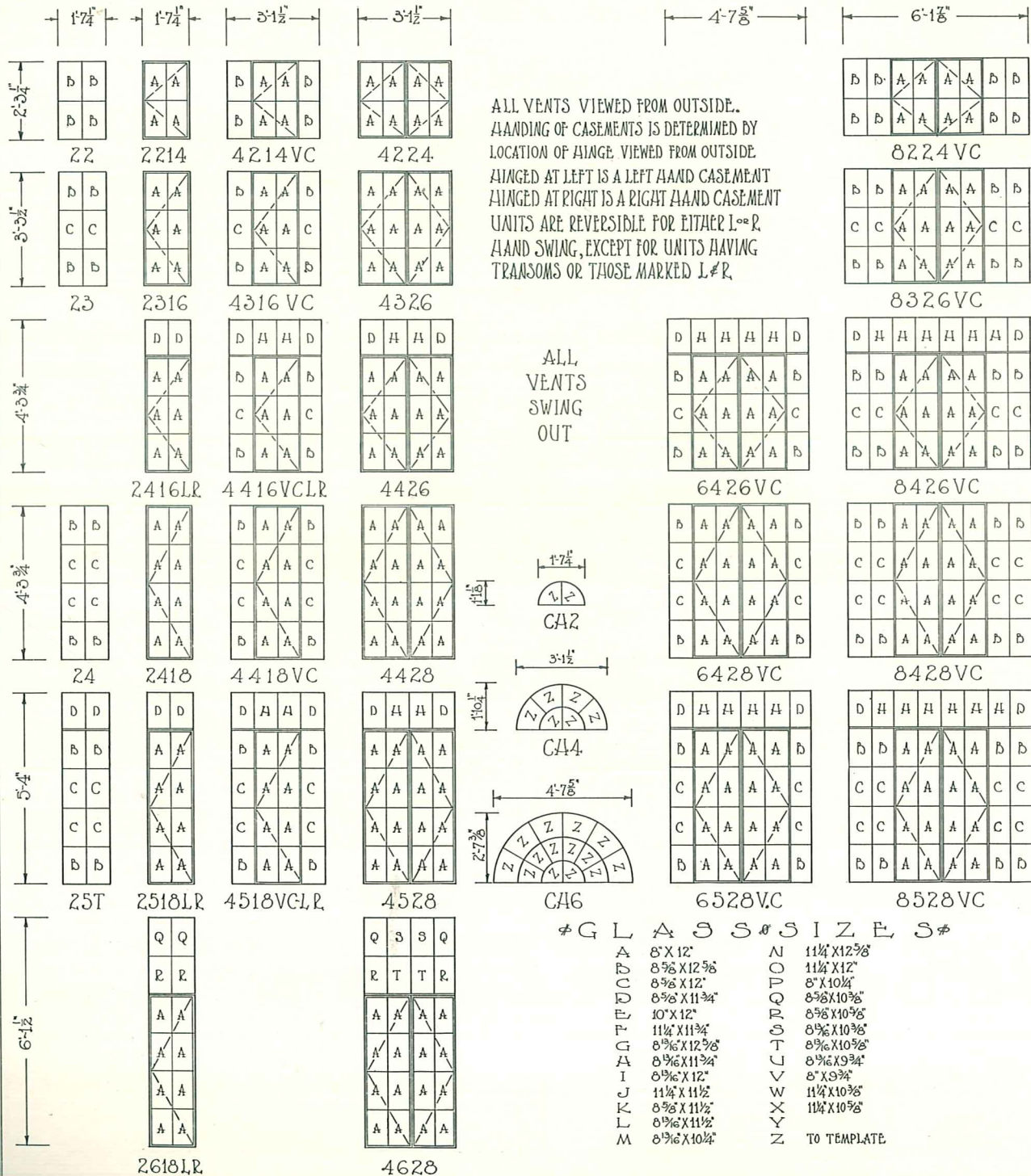


Truscon Standard Steel Casements ~ Model No. 5





# STANDARD UNITS CARRIED IN STOCK



**TRUSCON**  
STEEL WINDOWS

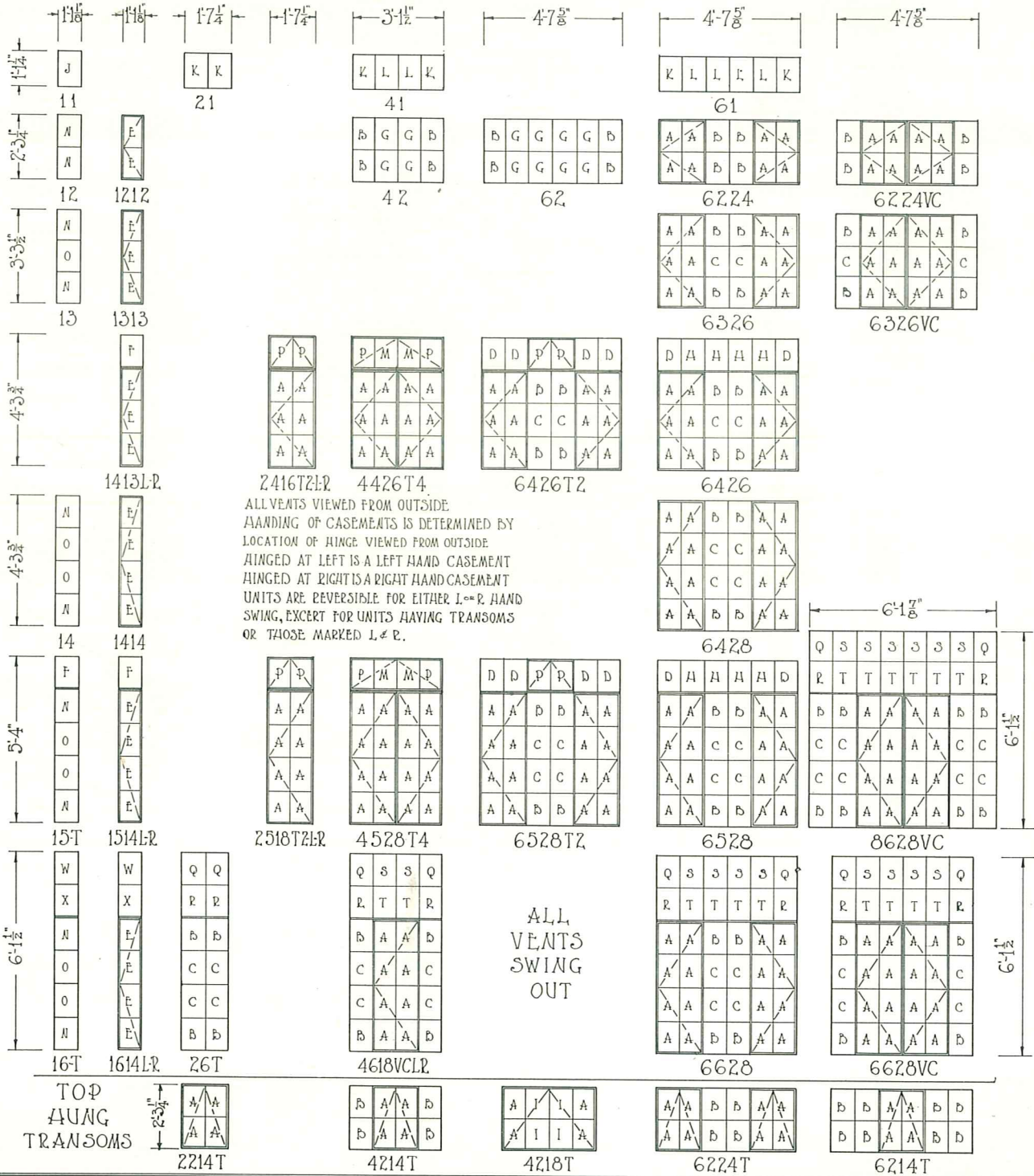
MODEL No 5  
**TRUSCON STANDARD CASEMENTS**  
• TRUSCON STEEL COMPANY •  
• YOUNGSTOWN • OHIO •

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JAN-1930



# STANDARD UNITS

# FACTORY SHIPMENT



MODEL № 5



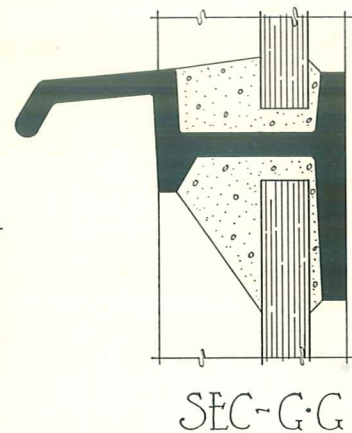
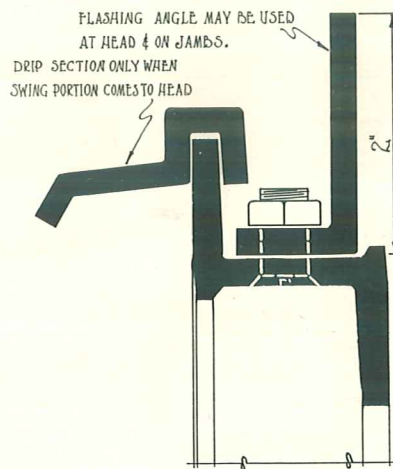
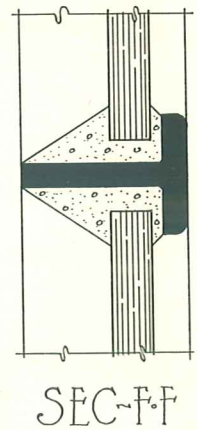
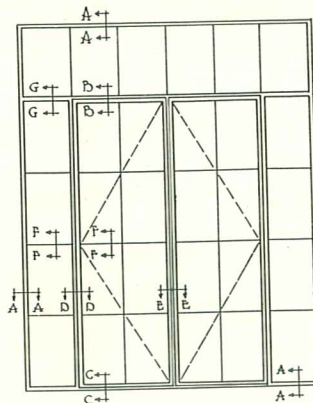
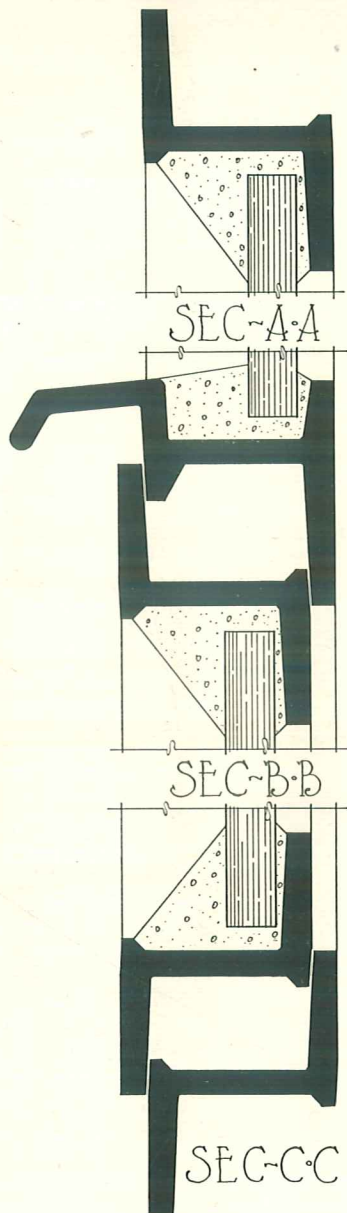
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STEEL WINDOWS

TRUSCON STANDARD CASEMENTS  
TRUSCON STEEL COMPANY YOUNGSTOWN OHIO

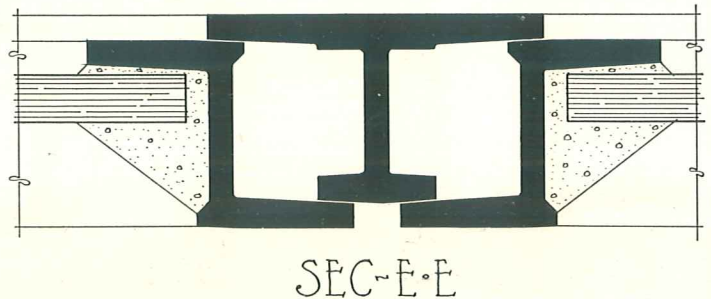
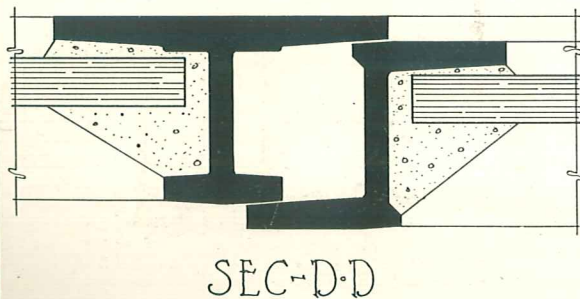
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Truscon Standard Steel Casements ~ Model No. 5



FULL SIZE SECTIONS



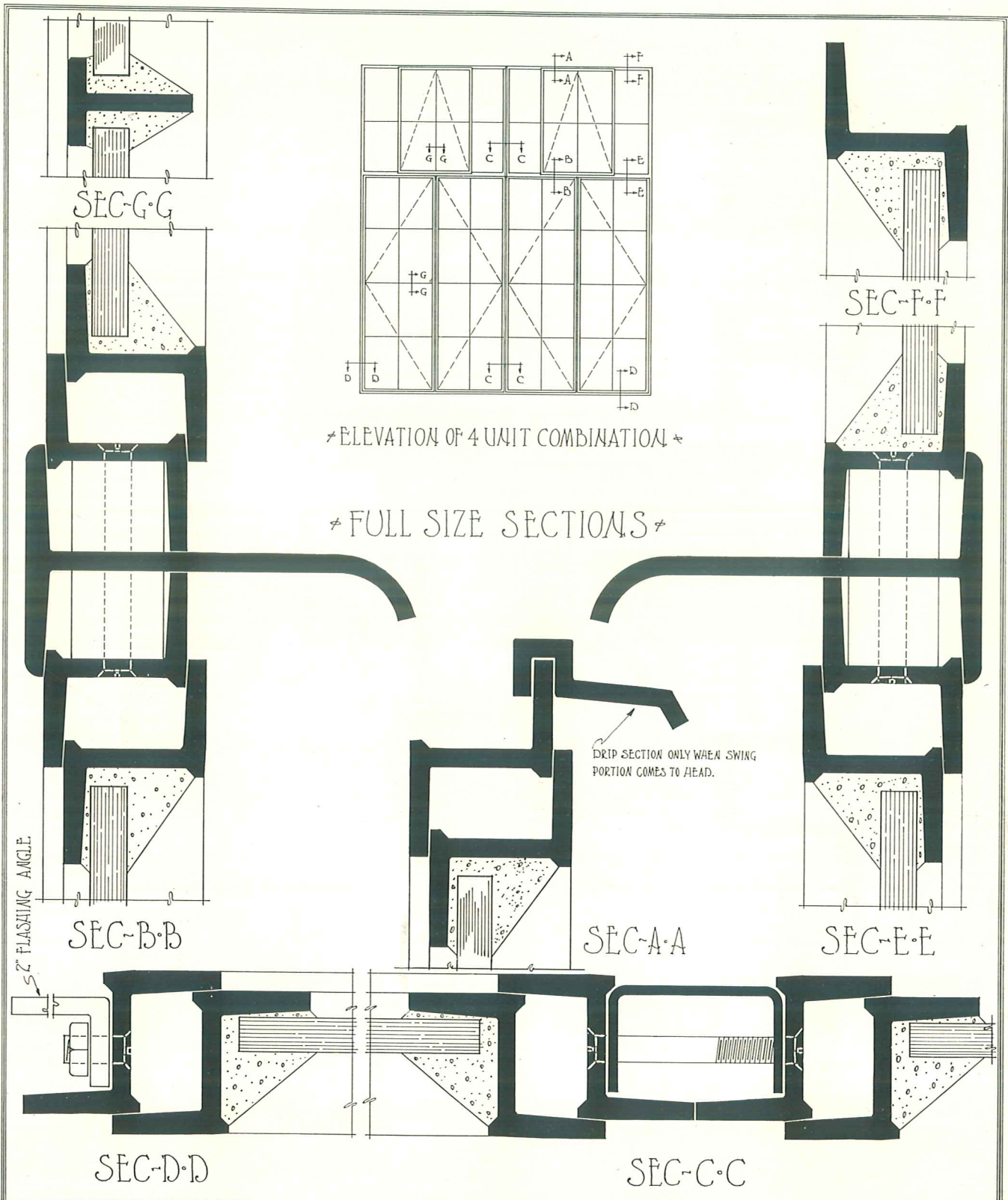
TRUSCON  
STEEL WINDOWS

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- YOUNGSTOWN - OHIO -

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Truscon Standard Steel Casements ~ Model No. 5



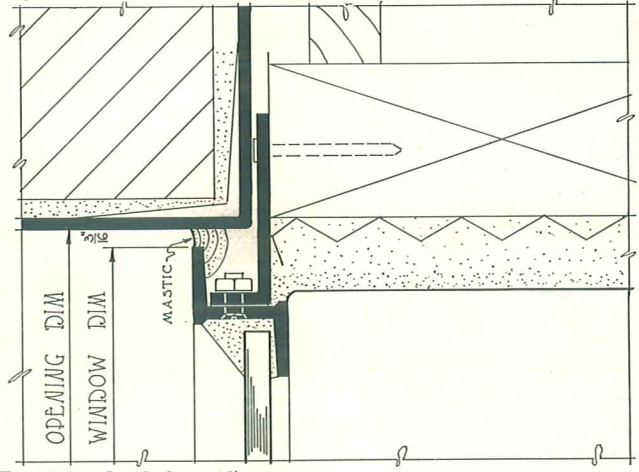
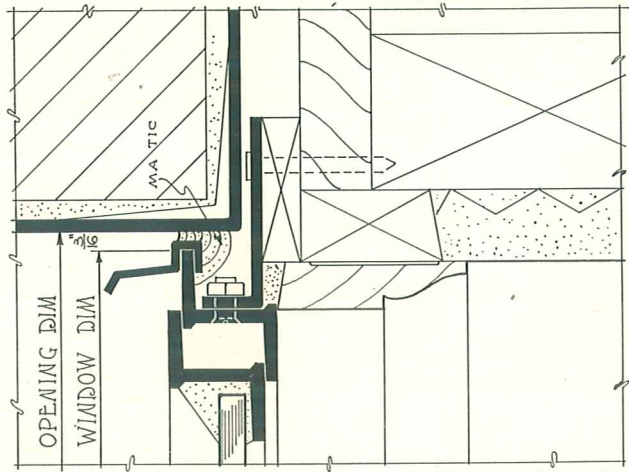
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STEEL WINDOWS

MODEL NO. 5  
**TRUSCON STANDARD CASEMENTS**  
TRUSCON STEEL COMPANY  
YOUNGSTOWN OHIO

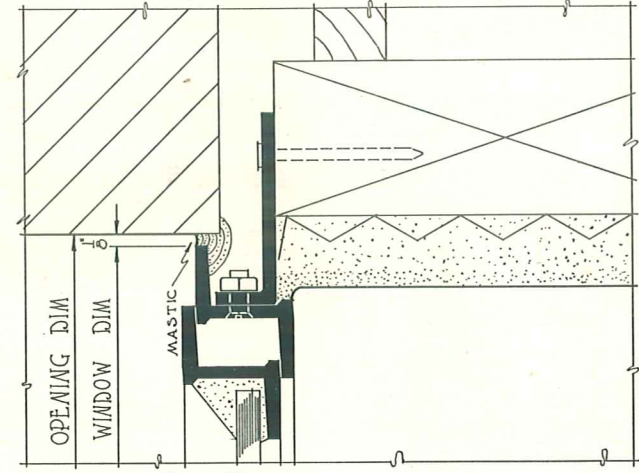
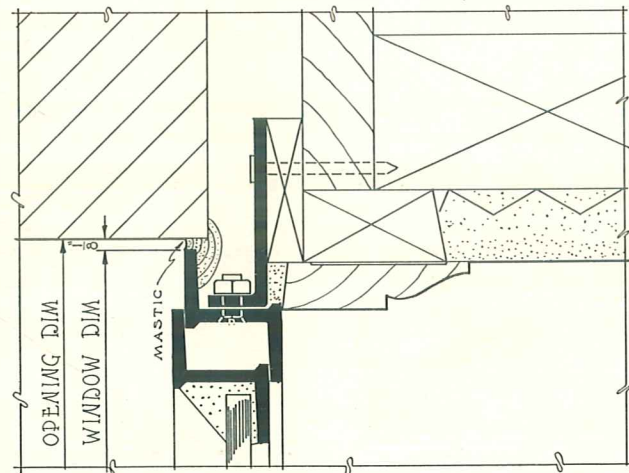
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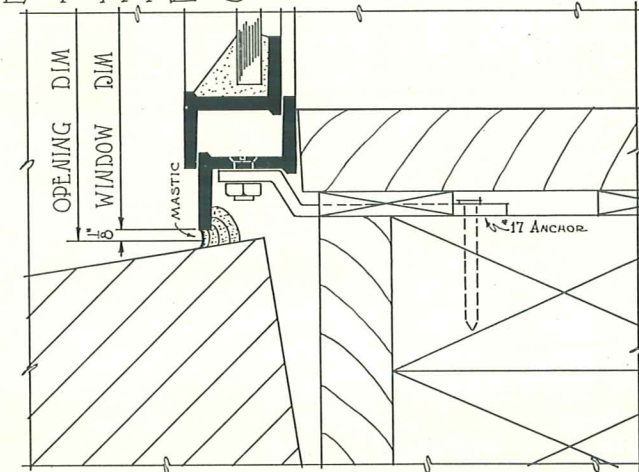
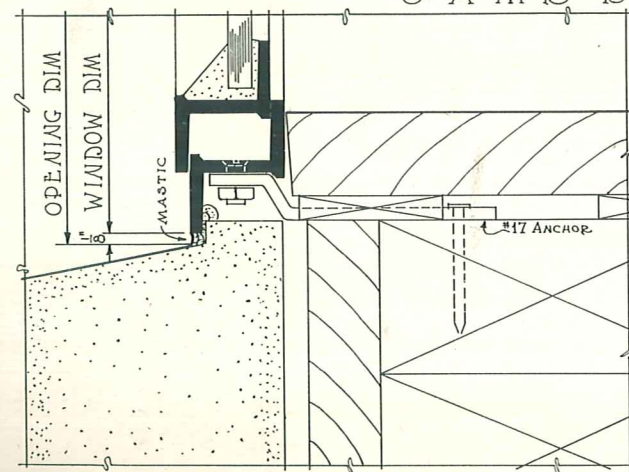
# CONSTRUCTION DETAILS



HEAD DETAILS



JAMB DETAILS



SILL DETAILS

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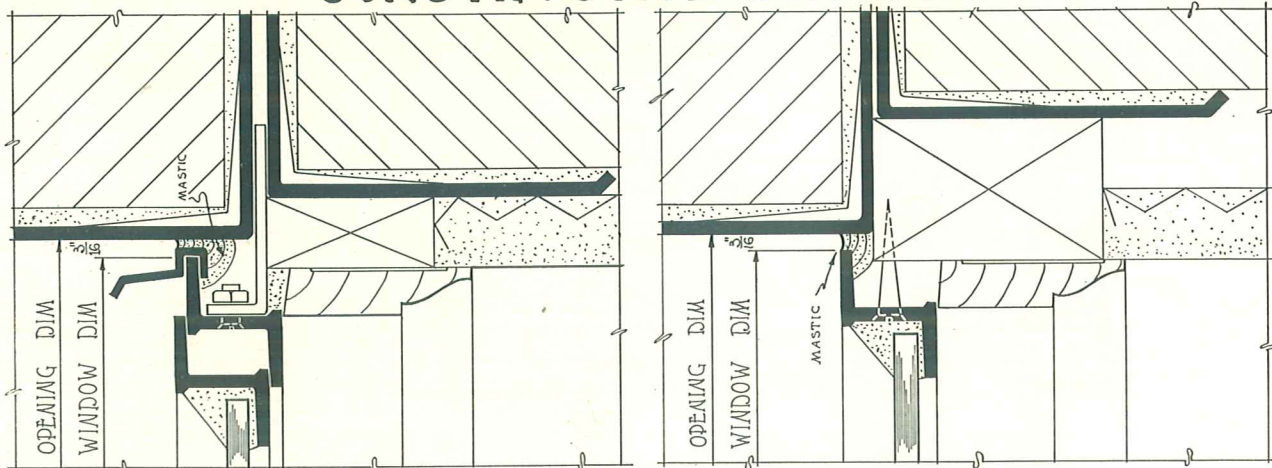
**TRUSCON**  
STEEL WINDOWS

BRICK VENEER DETAILS  
TRUSCON STANDARD CASEMENTS

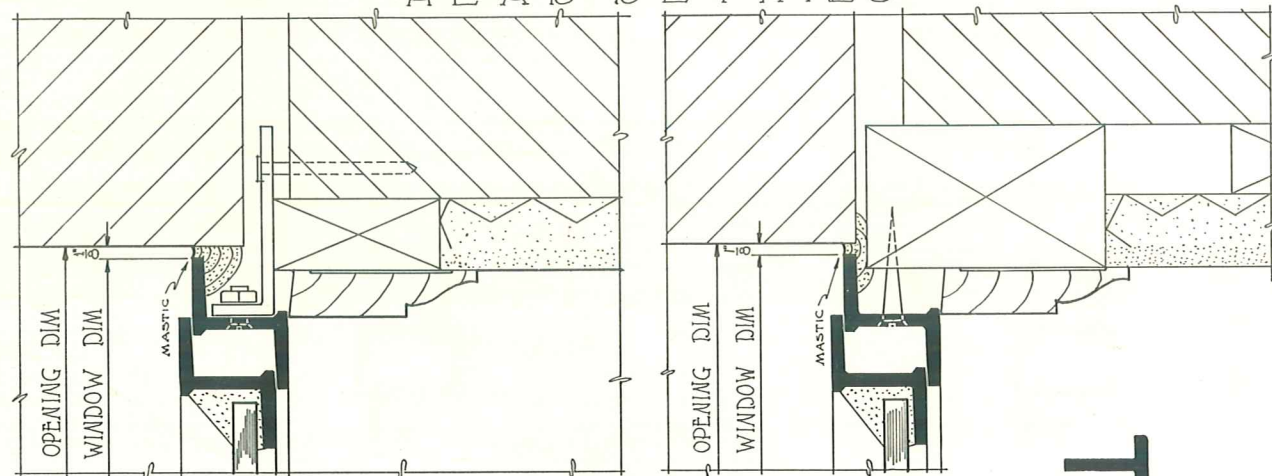
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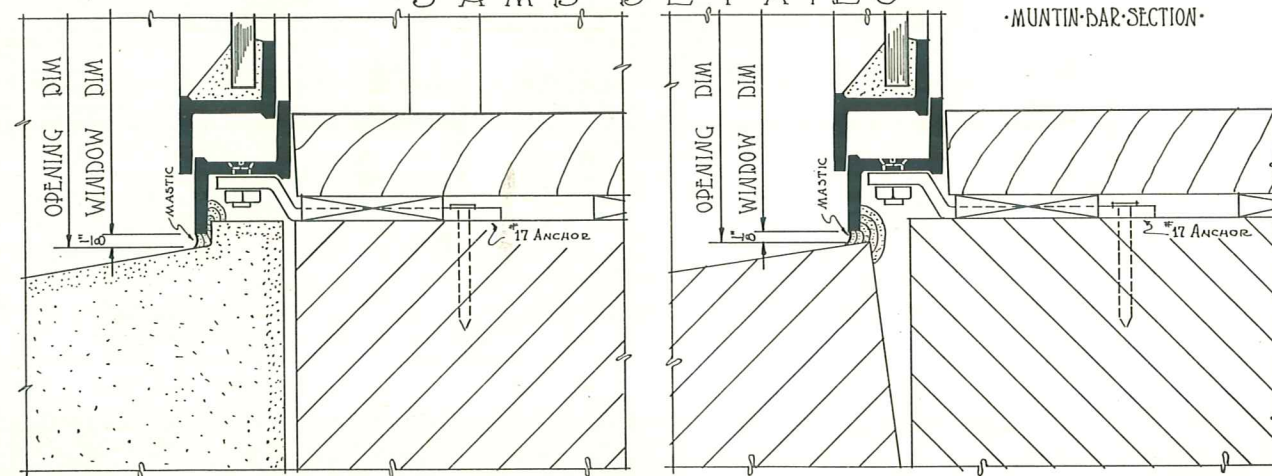
# CONSTRUCTION DETAILS



· HEAD DETAILS ·



· JAMB DETAILS ·



· SILL DETAILS ·



· SCALE  $\frac{1}{2}'' = 1'$  ·

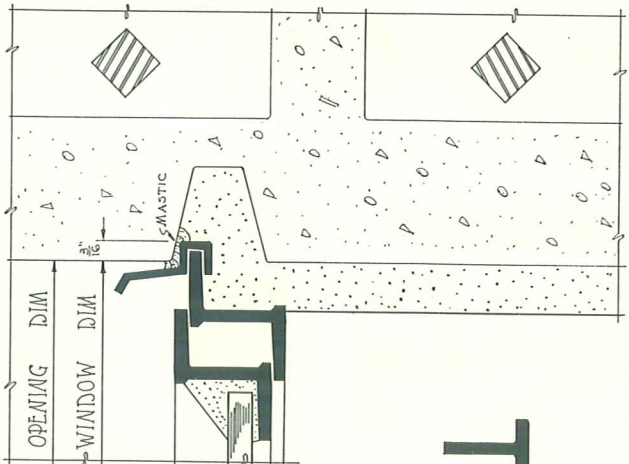
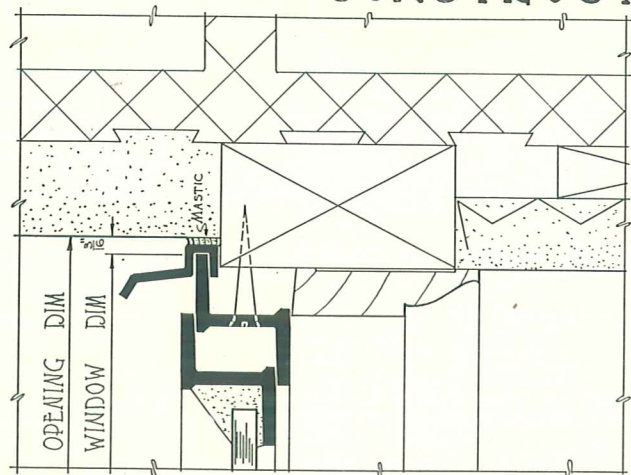
**TRUSCON**  
STEEL WINDOWS

· SOLID BRICK DETAILS ·  
**TRUSCON STANDARD CASEMENTS**

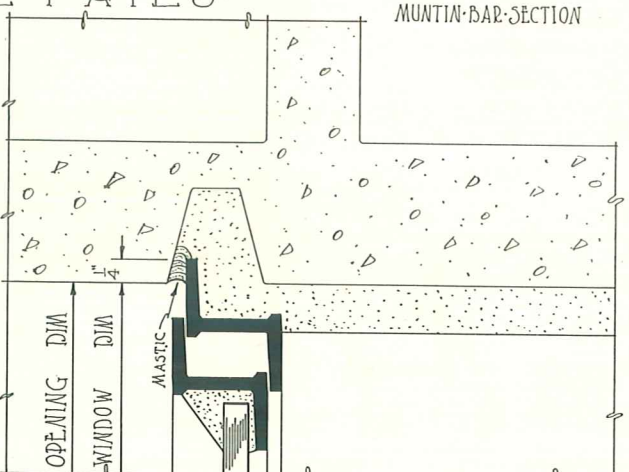
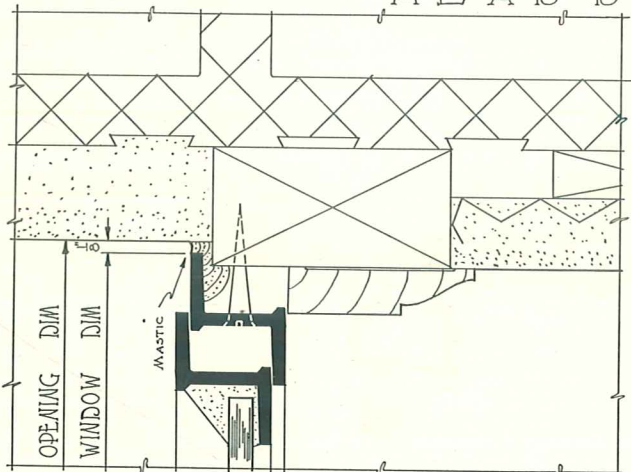
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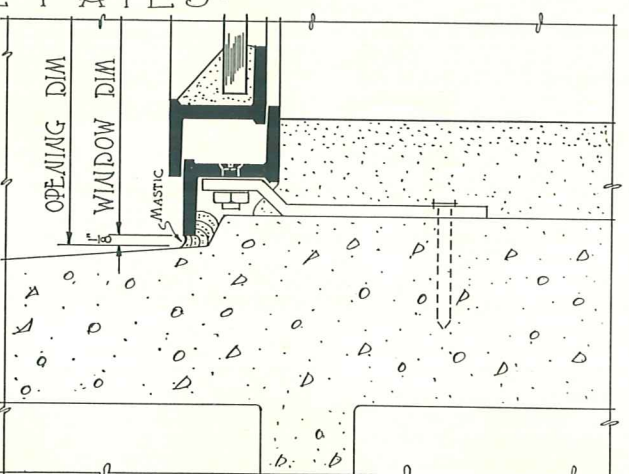
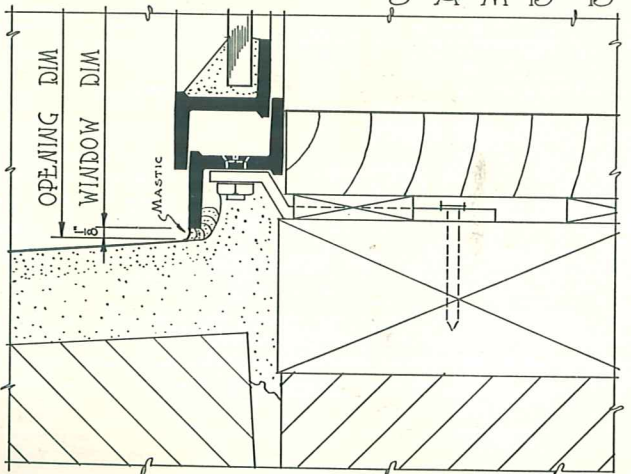
# CONSTRUCTION DETAILS



## HEAD DETAILS



## JAMB DETAILS



## SILL DETAILS

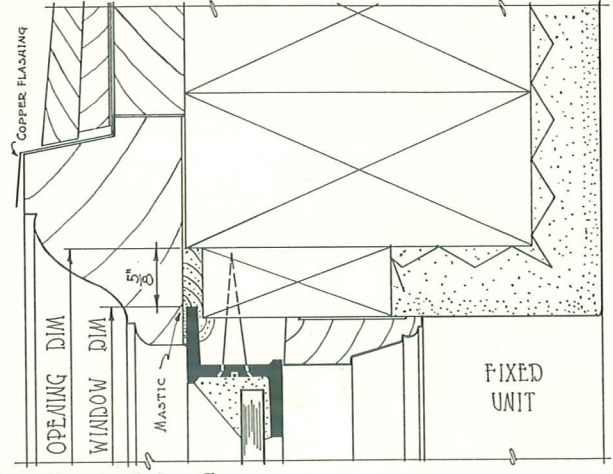
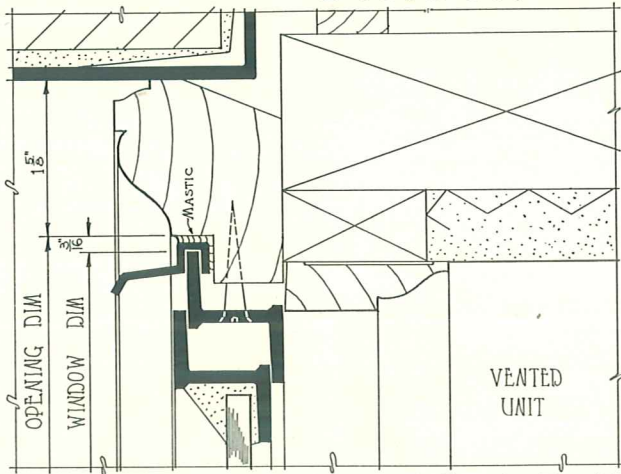
**TRUSCON**  
STEEL WINDOWS

· TILE & CONCRETE BLOCK DETAILS ·  
TRUSCON · STANDARD · CASEMENTS

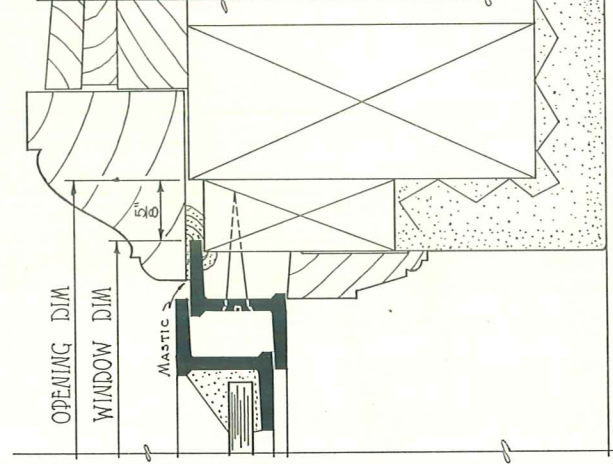
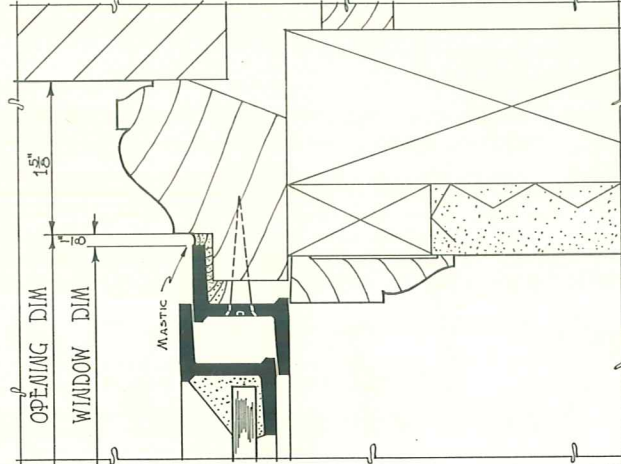
**C-25**  
FEB-1930



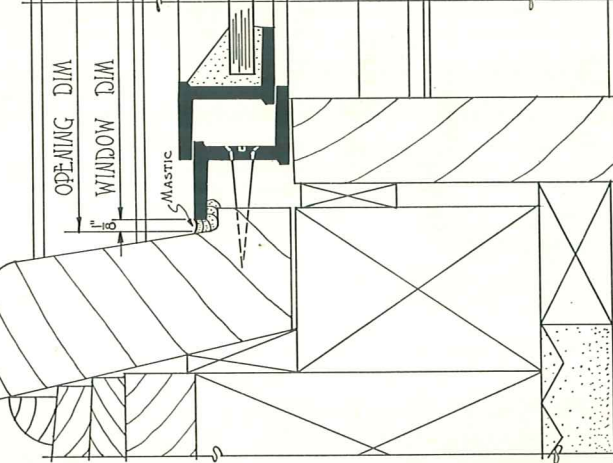
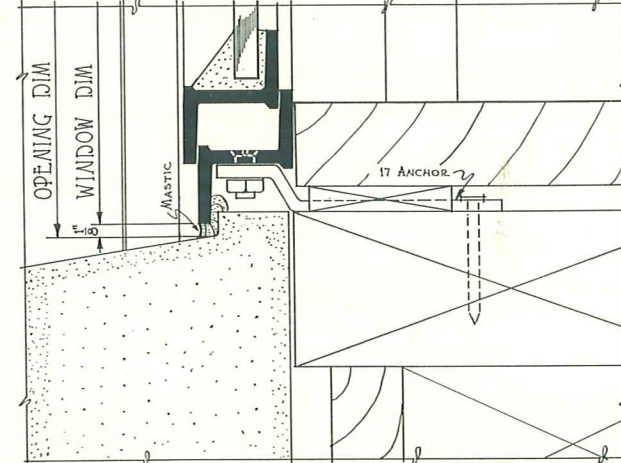
# CONSTRUCTION DETAILS



## HEAD DETAILS



## JAMB DETAILS



## SILL DETAILS

SCALE 1/2"=1"

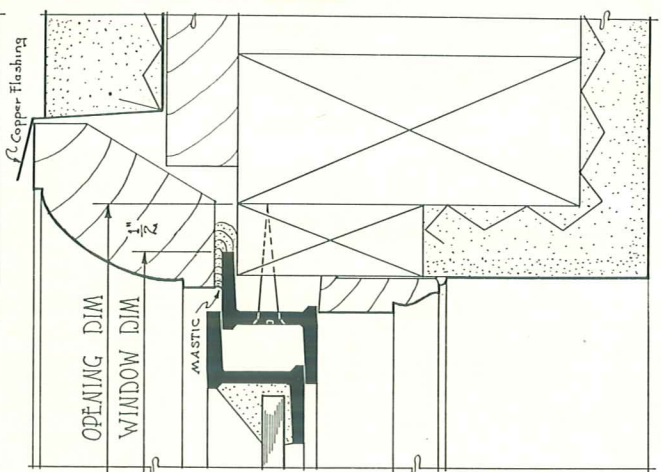
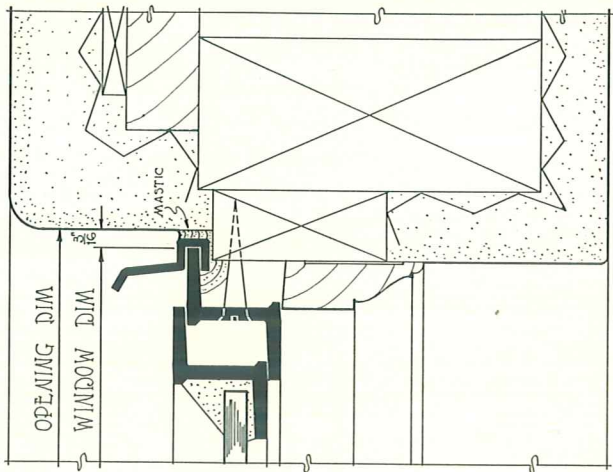
**TRUSCON**  
STEEL WINDOWS

• VENEER & SHINGLE DETAILS •  
**TRUSCON STANDARD CASEMENTS**

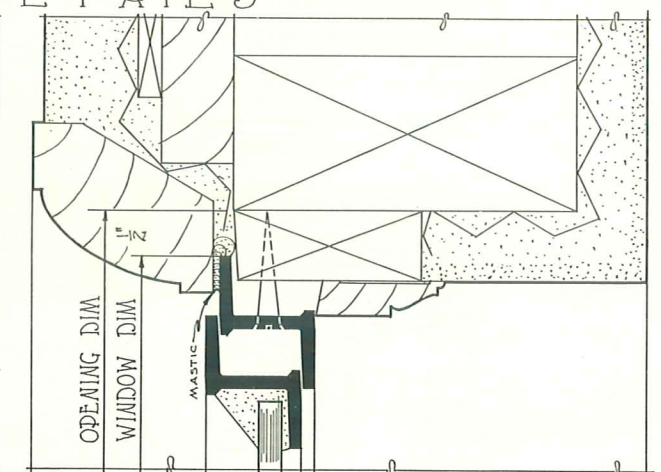
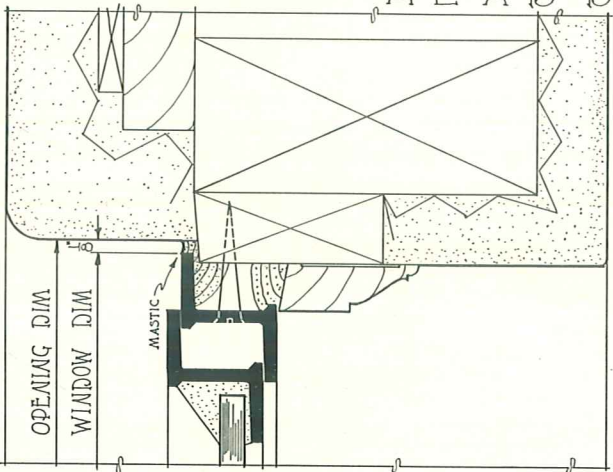
**C-26**  
FEB-1930



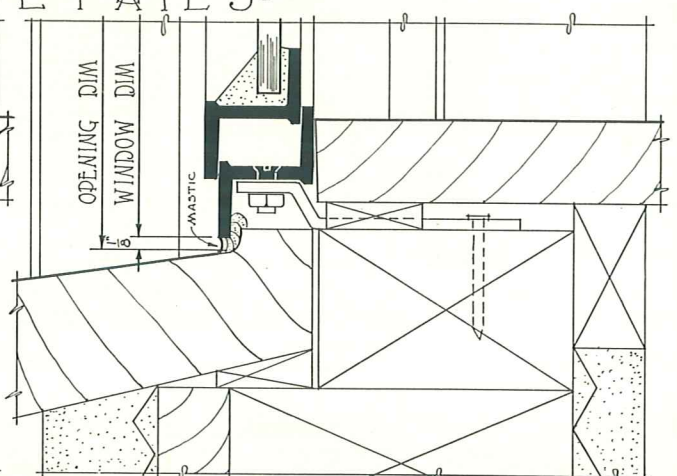
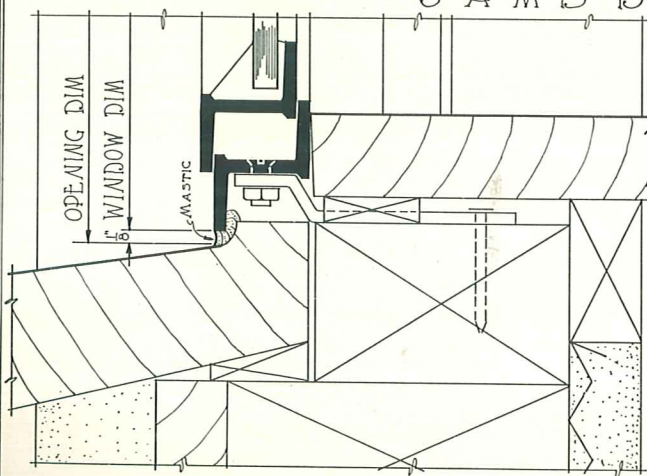
# CONSTRUCTION DETAILS



## -HEAD-DETAILS-



## -JAMB-DETAILS-



## -SILL-DETAILS-

SCALE  $\frac{1}{2}'' = 1''$



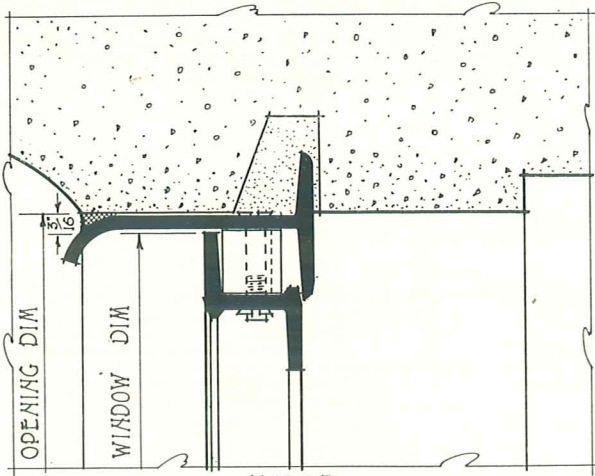
STUCCO DETAILS  
TRUSCON STANDARD CASEMENTS

C-29  
FEB-1930

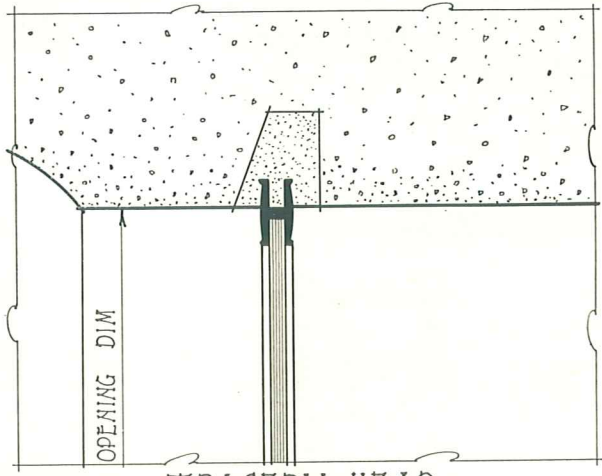


Truscon Standard Steel Casements - Model No. 5

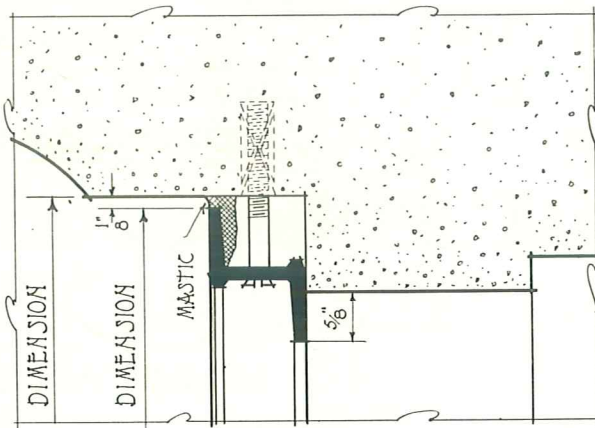
STONE CONSTRUCTION



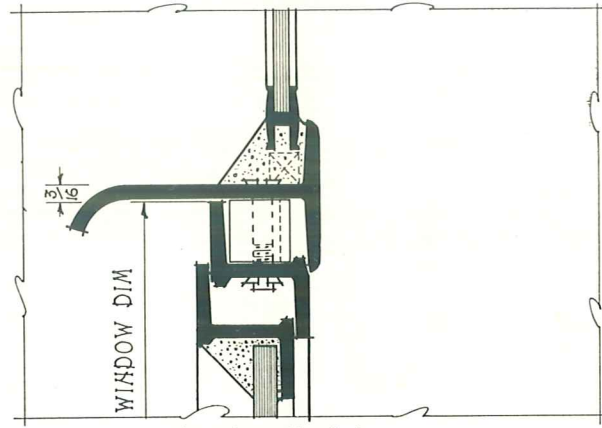
HEAD



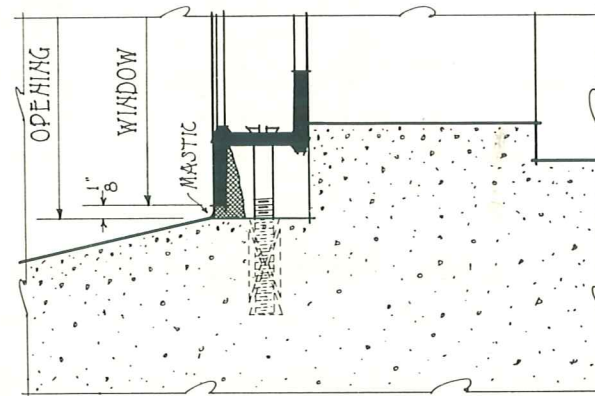
TRACERY HEAD  
LEADED GLASS



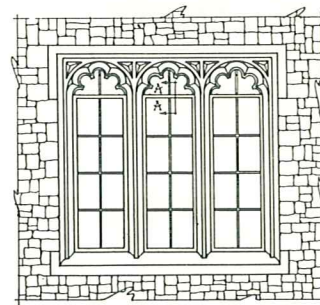
JAMB



SECTION AA



SILL



TYPICAL ELEVATION

DETAILS - HALF SIZE

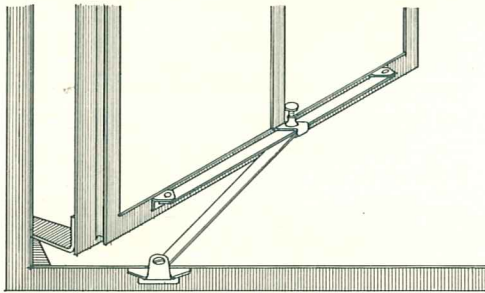
TRUSCON  
STEEL WINDOWS

MODEL - No 5  
TRUSCON - STANDARD - CASEMENTS  
TRUSCON - STEEL COMPANY -  
- YOUNGSTOWN - OHIO -

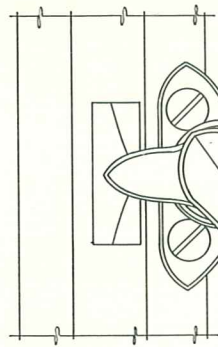
C-27  
MARCH 1928



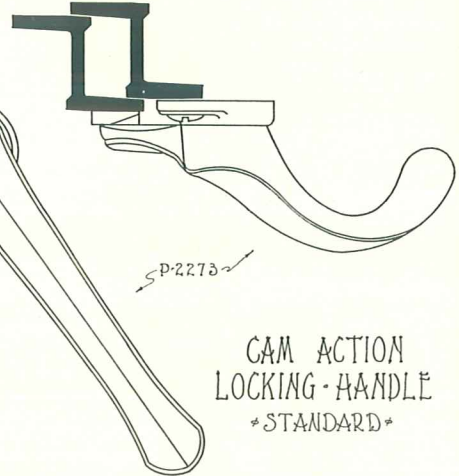
Truscon Standard Steel Casements ~ Model No. 5



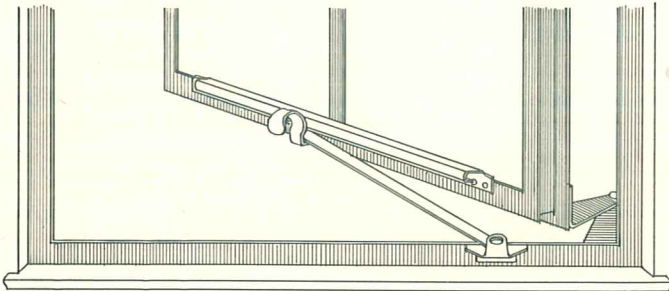
• SLIDING THUMB SCREW ADJUSTER - N° 30 -  
\* SPECIAL \*



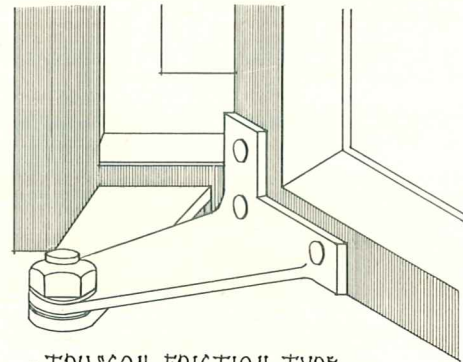
RIGHT HAND - P-2274  
LEFT HAND - P-2273



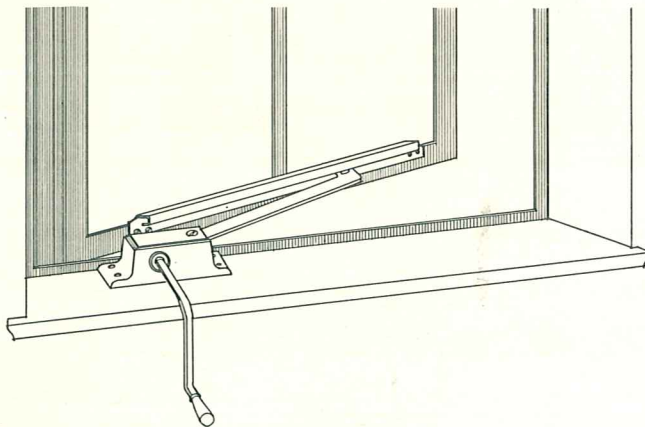
CAM ACTION  
LOCKING HANDLE  
\* STANDARD \*



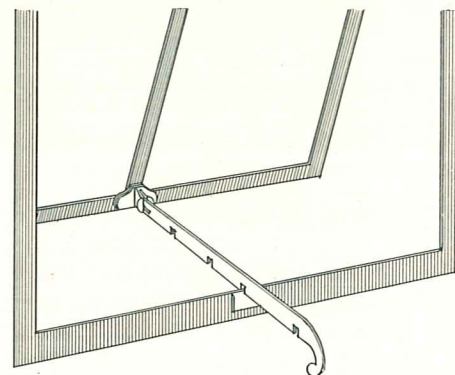
• AUTOMATIC SLIDING ADJUSTER - N° 61 -  
\* SPECIAL \*



• TRUSCON FRICTION TYPE  
EXTENDED HINGE  
\* STANDARD \*



• GEARED UNDERSCREEN ADJUSTER - N° 25 -  
\* SPECIAL \*



• TRANSCOM STAY BAR ADJUSTER - E 357  
\* STANDARD \*

**TRUSCON**  
STEEL WINDOWS

• HARDWARE • MODEL N° 5 •  
**TRUSCON STANDARD CASEMENTS**  
• TRUSCON • STEEL • COMPANY •  
• YOUNGSTOWN • OHIO •

**C-28**  
FEB-1930



## SPECIFICATIONS

### GENERAL

- 1 All window openings shown on drawings unless otherwise specified shall be fitted with a standard type of casement as manufactured by the Truscon Steel Company of Youngstown, Ohio. No substitution will be permitted without the written approval of the architect.

### SCOPE OF WORK

- 2 This contractor shall include in his work the furnishing of all steel casements complete, the adjusting after erection and before glazing, and the attaching of hardware as called for on drawings and covered in this specification.

### WORK AND MATERIAL NOT INCLUDED

- 3 Glass, putty, glazing, field painting, caulking and painting after erection.

### MATERIAL

- 4 Truscon specification, low carbon new billet hot-rolled steel, shall be used in manufacture of all members.

### CONSTRUCTION

- 5 (A) All casements and standard combinations shall be manufactured in complete units at factory. The nominal glass size shall be 8" x 12". (See Plates C-21 and C-21A on pages 20 and 21.)  
(B) All frames, and stiles and rail members of swing leaves, shall be Zee bars. All corners to be mitered and electrically butt welded. Exposed faces at welds to be ground smooth.  
(C) All muntins shall be Tee bars with a  $\frac{5}{8}$ " face and a depth of  $\frac{7}{8}$ ", and shall be continuous between rails and stiles. At intersections there shall be a mechanical joint rigidly interlocking the muntins flush with face on the inside.  
Joints of muntins with frames, stiles and rails shall be tenoned, mortised, and air hammer riveted. Horizontal muntins shall be punched for glazing clips (*see note*).  
(D) All side hung swing leaves shall open outwardly and be equipped with heavy extension (cleaning) hinges that are securely riveted to rails of sash and electrically welded or riveted to frames.

- (E) Hinges shall be of the special Truscon friction type, designed to hold window open in any desired position.
- (F) Windows shall be hinged to swing right or left as indicated. Continuous double contact weathering between swing leaves and frame shall be provided.
- (G) Where combinations of standard units are required for any single opening, vertical and horizontal mullions shall be used to join them.
- (H) A continuous drip strip (flashing) shall be provided on transom bars of all standard swing leaf combinations.

### HARDWARE

- 6 (A) All hardware shall be shipped unattached and packed separately to prevent damage and shall be applied after erection and painting.  
(B) The cam action locking handle shall be of standard design furnished in black lacquer finish, and shall be attached to swing leaves (side hung). Beveled brass strike plate shall be attached to frame (*see note*).  
(C) Standard push bars shall be furnished for all top hung transom units.

### PAINTING

- 7 Casements shall be given one dip coat of steel grey mineral paint at factory before shipment.

### GLAZING

- 8 All casements shall be glazed on the outside. Glass shall be held in place by Truscon copper clad, spring steel wire glazing clips. All glass shall be bed and face puttied with Truscon special metal window putty.

### ERECTION

- 9 (A) Each unit must be set plumb and true, aligned after installation and adjusted before glazing.  
(B) Mastic in sufficient quantity shall be used in setting and bedding frames where they come in contact with mullions or wall construction (*see note*).

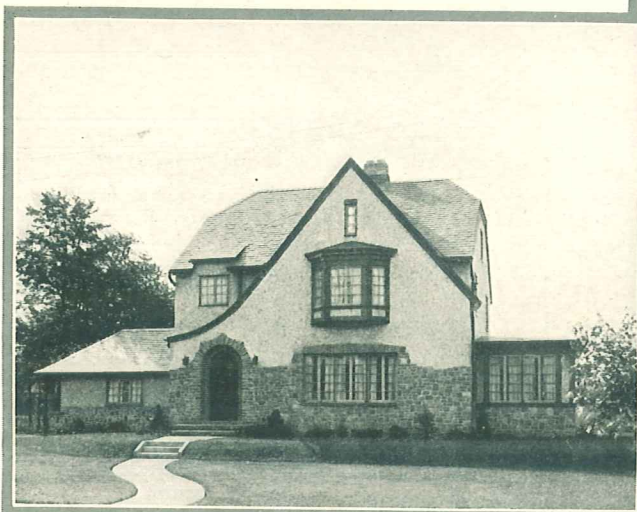
(Where so desired, the Erection Division of Truscon Steel Company will contract for the erection and adjusting of all casements in prepared openings.)

NOTES:—Muntin bars may be omitted for use of leaded glass of any pattern, or for single lights of polished plate or other kinds of glass. Glazing clips and mastic (1 lb. to 10 lin. ft.) are furnished and shipped with casements without additional charge.

Cam locking handles can be supplied in Butler Nickel or Chromium finish, at an additional cost. Architect to specify type and finish. Sill rails are drilled to accommodate standard adjuster and operators of various types if required, in addition to friction hinge.



*Truscon Standard Steel Casements ~ Model No. 5*



①



②



1. A. W. McCrea Residence  
Erie, Penna.  
*Fuller & Stickie, Architects*  
*C. H. Schafer, Contractors*
2. Dr. Frank W. Milward Residence  
Rocky River, Ohio  
*H. W. Greime, Architect*  
*R. A. Boccia, Builder*
3. Alexander Weizer Residence  
Cleveland, Ohio  
*John Wahter, Architect and Contractor*
4. C. McGreevey Residence  
Kansas City, Missouri  
*Buckley & VanBrunt, Architects*



③

④



*Truscon Standard Steel Casements ~ Model No. 5*



①



②

1. Residence  
Parkside and Lake Erie  
Lakewood, Ohio  
*Guarantee Construction Company,  
Builders and Architects*
2. Dr. Allen Residence  
Rocky River, Ohio  
*Wm. Petrie, Contractor and Architect*
3. Percy R. Baker Residence  
Atlanta, Georgia  
*Ivey & Crook, Architects  
Collins, Holbrook & Collins, Contractors*
4. Kittinger Furniture Company  
Los Angeles, California  
*Wm. P. Naiblo, Inc., Contractor*



③

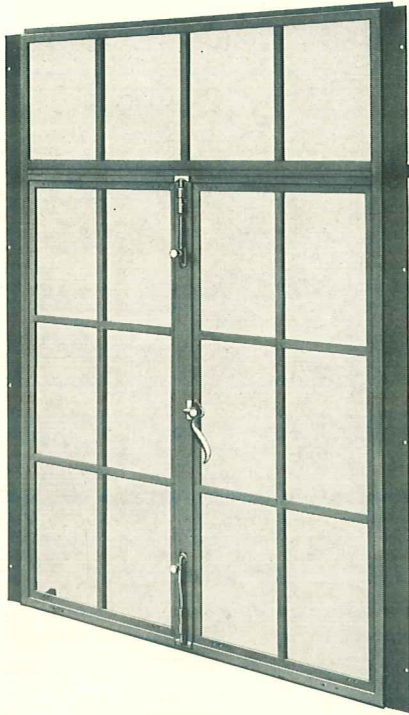


④

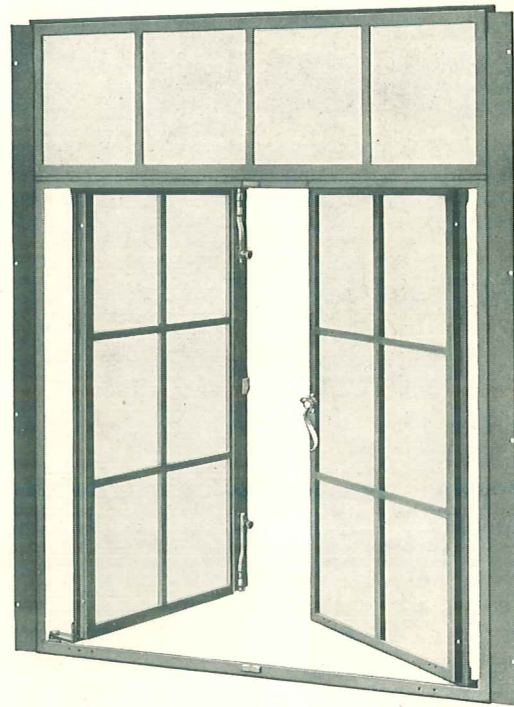


## DOUBLE STEEL CASEMENTS WITHOUT MULLION

A UNIT FOR FIRE ESCAPE WINDOWS



CLOSED



PARTLY OPEN

FURNISHED IN FOUR SIZES:

No. 4326-FE— $3' \cdot 1\frac{1}{2}''$  x  $3' \cdot 3\frac{1}{2}''$

No. 4428-FE— $3' \cdot 1\frac{1}{2}''$  x  $4' \cdot 3\frac{3}{4}''$

No. 4426-FE—with transom  $3' \cdot 1\frac{1}{2}''$  x  $4' \cdot 3\frac{3}{4}''$

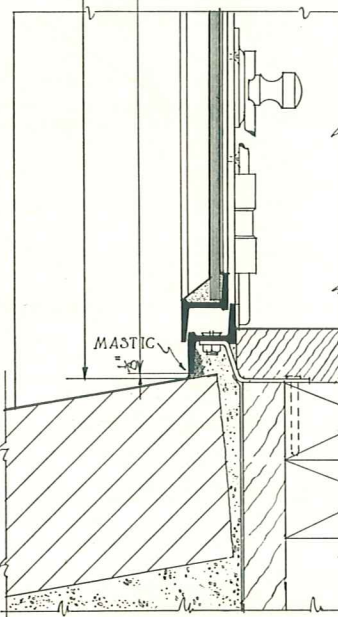
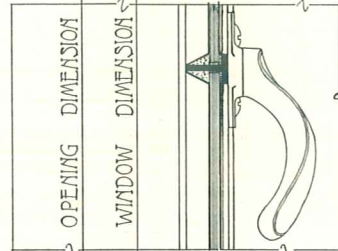
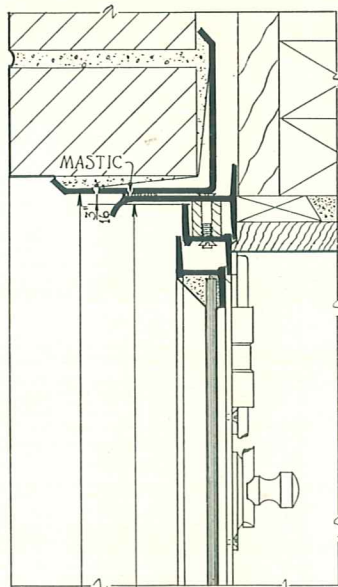
No. 4528-FE—with transom  $3' \cdot 1\frac{1}{2}''$  x  $5' \cdot 4''$

TRUSCON DOUBLE STEEL CASEMENTS for clear openings, particularly fire exits, are of special design and high grade workmanship. They permit easy and rapid exit where used for openings on fire escapes. The mullion is entirely eliminated, as the two leaves close on each other. The leaves swing outward and the entire window opening throughout its width and height is open for exit without obstruction.

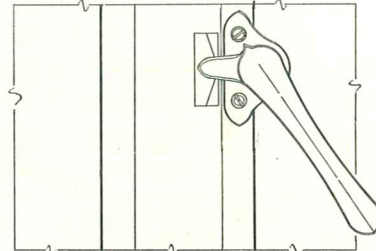
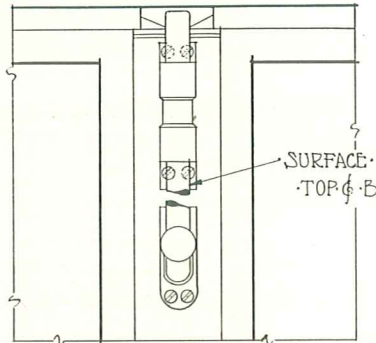
A center locking handle on the right hand leaf and top and bottom bolts on the left hand leaf lock the window. Two-point contact between the two sash assures weather-tightness. Extension friction hinges hold the window open in any desired position. The hardware is complete and of the best quality.



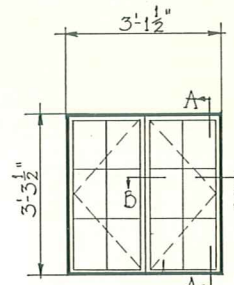
Truscon Standard Steel Casements ~ Model No. 5



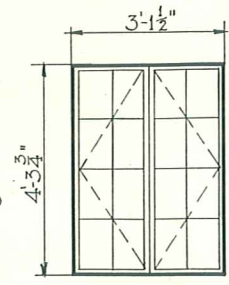
SECTION AA



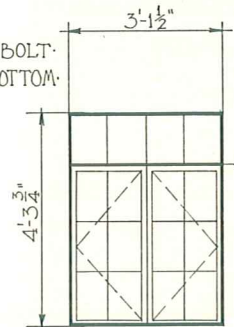
ELEVATION OF MULLION



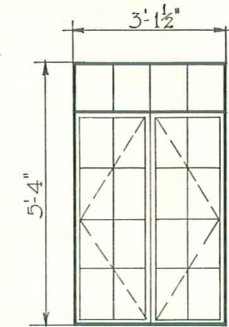
4326FE



4428FE

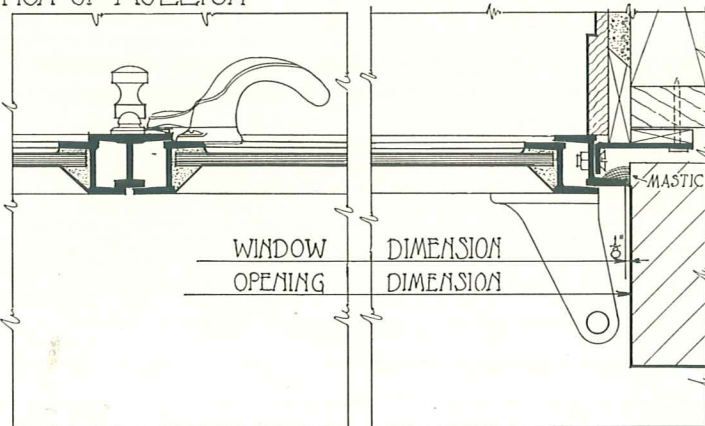


4426FE



4528FE

TYPICAL INSIDE ELEVATIONS



SECTION BB

NOTE...THIS TYPE OF WINDOW TO BE MADE IN ABOVE SIZES ONLY.  
OPENING OUTWARDLY... PROVIDES CLEAR OPENING WIDTH... EACH  
SASH EQUIPPED WITH FRICTION HINGES.

DOUBLE CASEMENT WITHOUT STATIONARY MULLION

TRUSCON  
STEEL WINDOWS

MODEL NO 5  
TRUSCON STANDARD CASEMENTS  
TRUSCON STEEL COMPANY  
YOUNGSTOWN OHIO

C-31  
FEB-1930



## SPECIFICATIONS

### DOUBLE CASEMENT WITHOUT MULLION

(SUITABLE FOR FIRE EXITS)

#### GENERAL

- 1 All openings shown on the drawings as Fire Exits shall be fitted with a standard type of Double Casement without Mullion as manufactured by the Truscon Steel Company of Youngstown, Ohio. No substitution shall be permitted without the written consent and approval of the architect.

#### SCOPE OF WORK

- 2 This contractor shall include in his work the furnishing and installation of all Double Casements without Mullion, complete, including attaching of hardware and supplying glazing clips as called for on drawings and covered in this specification.

#### WORK NOT INCLUDED

- 3 Glass, glazing, painting, caulking and painting after erection. Insect screens or any preparation for same.

#### MATERIAL

- 4 Truscon specification new billet hot-rolled steel shall be used in the manufacture of all members.

#### CONSTRUCTION

- 5 The intersection of the horizontal and vertical muntins shall have a mechanical joint, rigidly interlocking the bars, and in addition the muntins shall be continuous from head to sill and from jamb to jamb. The surface of the joints shall be flush with the face of the muntin bars on both the inside and the outside. Horizontal and vertical muntin bars shall be of the same size and section. The connections of all muntin bars to sash rails shall be tenoned and air hammer-riveted into countersunk, mortised holes, making a flush surface on outside. All corners of sash and frame shall be mitered and electrically

butt welded. All sash and frames shall be not less than 1" deep.

- 6 No center mullion. Left hand leaf shall be closed and held shut by astragal plates on right hand casement leaf. Top and bottom bolt shall be attached to right hand leaf to lock both leaves.

#### HARDWARE

- 7 The leaves shall swing outwardly and shall be hung on heavy extension flat friction type hinges bolted to sash and welded to the frame giving additional reinforcing to the corners of frame. Astragal plates shall be attached to the leaves so as to hold the left hand leaf in a closed position and form a two-point contact weathering. Dummy handle shall be placed on the left hand leaf for opening and closing.

#### PAINTING

- 8 Double Casements without Mullion shall be given one dip coat of English oxide of iron and oil paint (grey in color) in factory, before shipment.

#### GLAZING

- 9 All Double Casements without Mullion shall be glazed on the outside.
- 10 Glass shall be held in place by Truscon copper-clad spring steel wire glazing clips. All glass shall be bed and face puttied with Truscon special metal window putty.

#### ERECTION

- 12 All Double Casements without Mullion shall be tested for alignment before installation and shall be held in place during construction by means of wooden wedges so located as not to distort or bulge the sash or frame in any way and set plumb, level, true and out of wind.

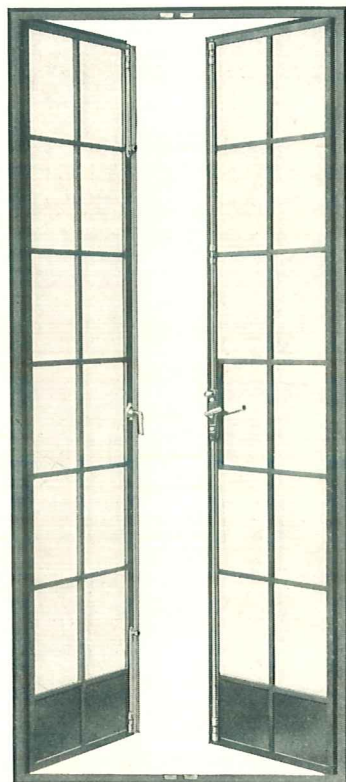


## STEEL CASEMENT DOORS

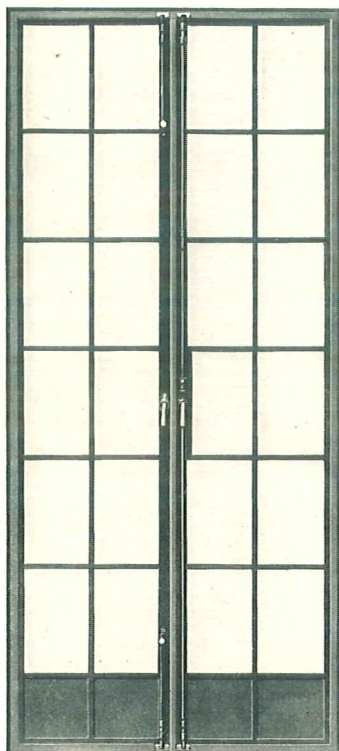
### MODEL No. 5

GLASS: 8" x 12"

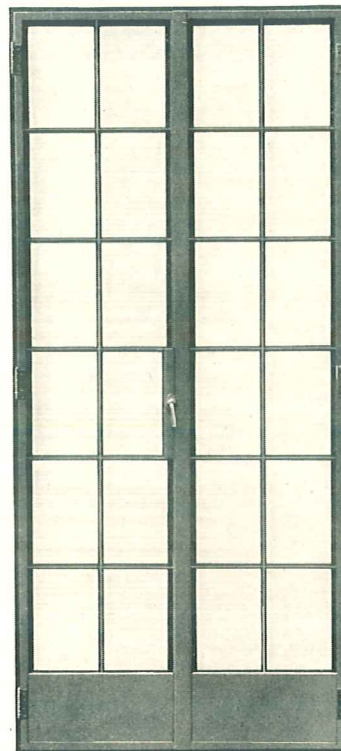
SIZE: 3'-1½" x 7'-0"



INSIDE VIEW OPEN



INSIDE VIEW CLOSED



OUTSIDE VIEW CLOSED

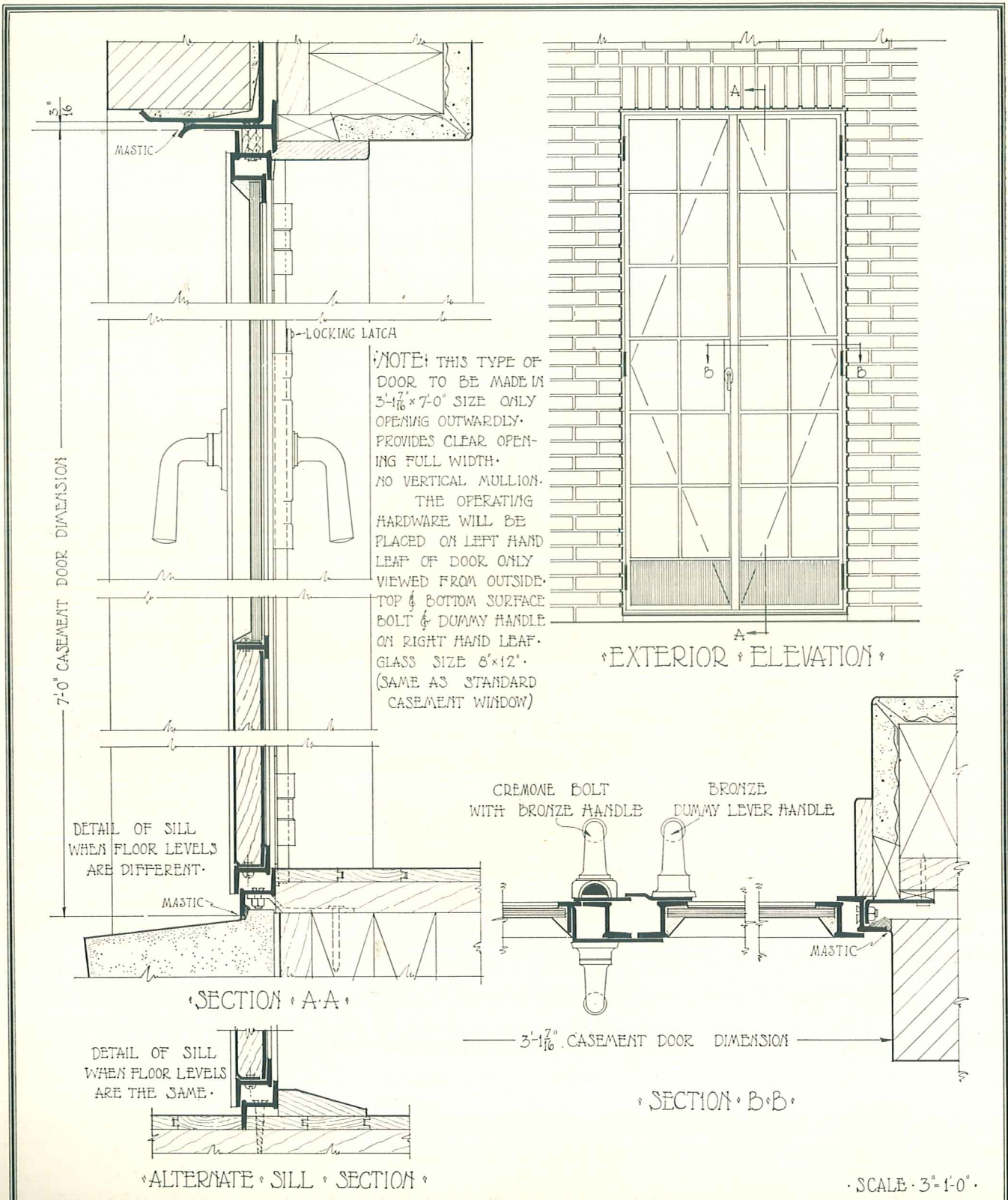
TRUSCON STEEL CASEMENT DOORS are correct in Architectural design and in view of their mechanical perfection make a practical door installation for porches and terraces or as connections between solariums and conservatories.

Casement Doors conform to size of Standard Casements Model No. 5, glass 8" x 12", each leaf 2 lights wide, 6 lights high, lower light with steel panel. The same head drip and frame and the circle casement transom, square head transom, transom bars, mullions and other casement fittings can be used in combination, assuring a uniform design where the doors and windows are used in conjunction.

The Casement Doors are equipped with cremone bolt on one leaf and top and bottom bolt on the other, insuring weather-tightness when closed and allowing the use of one door for general passage. Each leaf has three hinges of strong pressed steel with a heavy brass pin and are securely welded to the frame. Cremone bolt is of rust-proof steel and handles and trim are of bronze.



Truscon Standard Steel Casements ~ Model No. 5



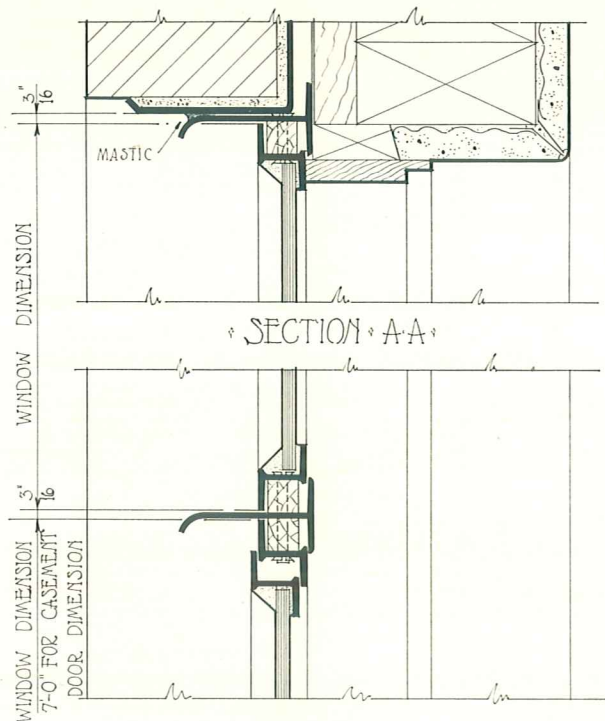
**TRUSCON**  
STEEL WINDOWS

STANDARD  
**TRUSCON CASEMENT DOOR**  
TRUSCON STEEL COMPANY · YOUNGSTOWN · OHIO ·

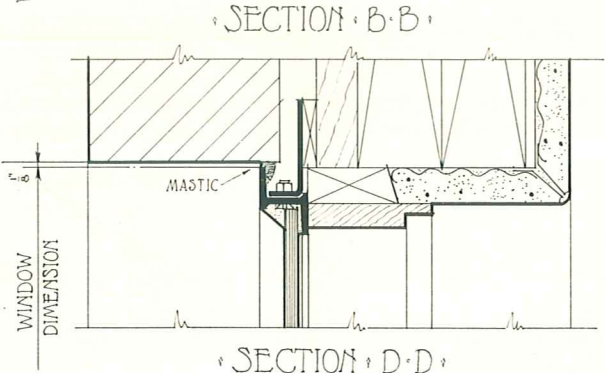
**C-32**  
FEB 1930



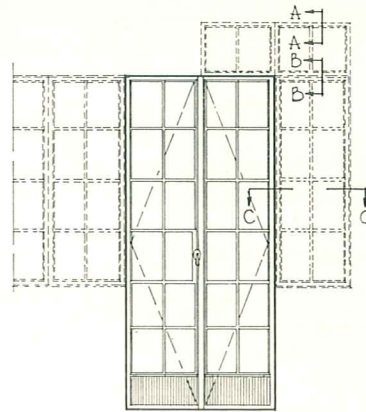
Truscon Standard Steel Casements ~ Model No. 5.



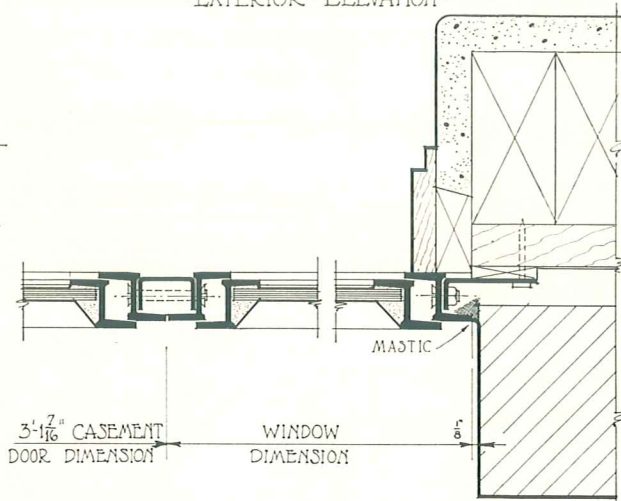
SECTION A-A



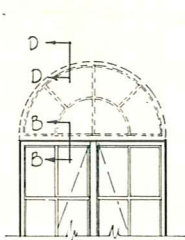
SECTION B-B



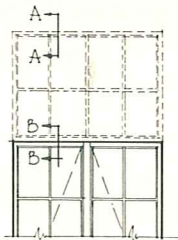
EXTERIOR ELEVATION



SECTION C-C



EXTERIOR ELEVATION



EXTERIOR ELEVATION

NOTE

FOR DETAIL OF DOORS SEE PLATE C-33.  
DOTTED LINES INDICATE ADAPTABILITY  
OF STANDARD CASEMENT WINDOW UNITS  
WHEN USED IN CONNECTION WITH STAND-  
ARD CASEMENT DOORS.

THE OPERATING HARDWARE FOR  
CASEMENT DOOR WILL BE PLACED ON  
LEFT HAND LEAF OF DOOR ONLY VIEWED  
FROM THE OUTSIDE.

SCALE 3"=1'-0"

**TRUSCON**  
STEEL WINDOWS

STANDARD DOOR WITH SPECIAL FEATURES  
**TRUSCON CASEMENT DOOR**  
TRUSCON STEEL COMPANY  
YOUNGSTOWN, OHIO

**C-33**  
FEB-1930



## SPECIFICATIONS STEEL CASEMENT DOORS

### GENERAL

- 1 All openings shown on the drawings as Steel Casement Doors shall be fitted with standard type of Casement Door as manufactured by the Truscon Steel Company of Youngstown, Ohio. No substitution shall be permitted without the written consent and approval of the architect.

### SCOPE OF WORK

- 2 This contractor shall include in his work the furnishing and installation of all Steel Casement Doors complete including attaching of hardware and supplying glazing clips as called for on drawing and covered in this specification.

### WORK NOT INCLUDED

- 3 Glass, glazing, painting, caulking and painting after erection, insect screens or any preparation for same.

### MATERIAL

- 4 Truscon specification, new billet, hot-rolled steel shall be used in the manufacture of all members.

### CONSTRUCTION

- 5 The intersection of the horizontal and vertical muntins shall have a mechanical joint, rigidly interlocking the bars and in addition the muntins shall be continuous from head to sill and from jamb to jamb. The surface of the joints shall be flush with the face of the muntin bars on both the inside and the outside. Horizontal and vertical muntin bars shall be of the same size and section. The connections of all muntin bars to sash rails shall be tenoned and air-hammer riveted into countersunk mortise holes, making a flush surface on the outside. All corners of sash and frames shall be mitered and

electrically butt welded. All sash and frames shall be not less than 1" deep.

- 6 The standard opening for Truscon Casement Doors shall be 3'-1½"x7'-0" out to out. The doors shall be 6 lights high and 2 lights wide; with a steel kickplate at the bottom on the outside of door, and a steel reinforcing panel on the inside of door welded to insure stiffness.
- 7 All doors shall have two-point contact weathering throughout.
- 8 The design, size and equipment of Casement Doors shall not be varied in any respect.

### HARDWARE

- 9 All Casement Doors shall open outwardly and shall be hung on heavy pressed steel hinges with 5/16" brass pins and securely welded to frame. The doors shall be equipped with a cremone bolt on one leaf and a dummy lever handle on the other with top and bottom bolts. Casement Doors shall not be provided with keyed lock.

### PAINTING

- 10 All Casement Doors shall be given one dip coat of English oxide of iron and oil paint (gray in color) in factory before shipment.

### GLAZING

- 11 All Casement Doors shall be glazed on the outside.
- 12 Glass shall be held in place by Truscon copper clad special steel wire glazing clips. All glass shall be bed and face puttied with Truscon special metal Casement putty.

### ERECTION

- 13 All Casement Doors shall be aligned after installation; must be set plumb and true and out of wind, properly wedged in place and carefully adjusted before glazing.



## SCREENED CASEMENT UNIT

THE FINAL touch of modernness to the modern home is a casement window properly screened. Truscon has taken the lead—first, in the further development of the casement, beautifying it with fittings, designed and executed by Ternstedt, that rival those of the costliest automobile—and now, the creation of various solutions in screening that are in perfect harmony in every respect with the whole. Every detail of the different inside screen solutions has been developed to a point where further improvements seem impossible.

We believe we have again correctly anticipated the demands and requirements of the architect and home builder in developing a Screened Casement Unit far beyond the expectations of even the most critical. Every Truscon Screened Casement Unit is a complete casement plus a complete screen with all hardware, fittings and assembly.

### CASEMENT ROL-UP SCREENS

The Casement Rol-Up Screen is not a “fixture” in the ordinary sense of the word, but is an integral part of the casement window. No cutting or fitting is necessary and no alterations or adjustments in either the screen or the casement are needed.

#### ARCHITECTURALLY CORRECT

Casement Rol-Up Screens are thoroughly in keeping with the architectural beauty of the casements. The slender guides fit flush against the frame and the small hexagon metal housing blends in perfectly with either the transom bar or head jamb. The finish is a rich electroplated antique bronze.

#### ECONOMICAL IN USE

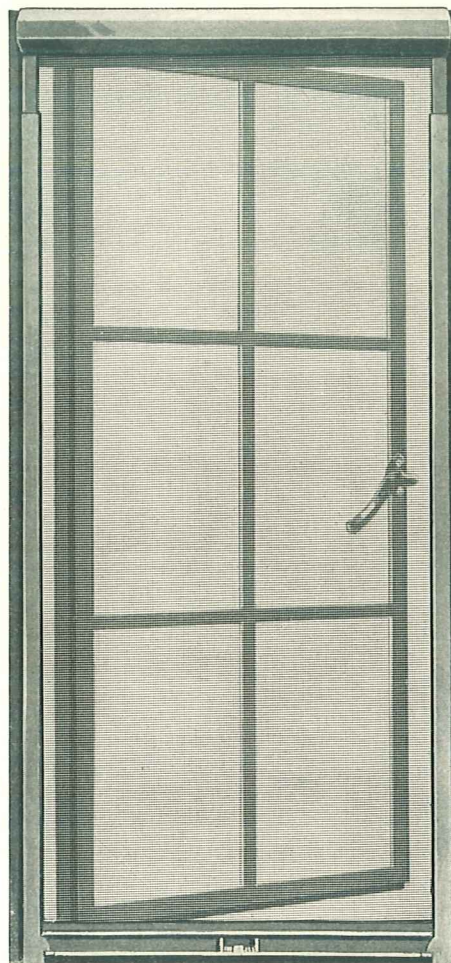
The screen is out of the way when not in use and is thus protected from the weather or other chances of damage. Its life is much longer as a result. Excess strength is supplied to all parts subject to wear, assuring permanent mechanical satisfaction. Always ready for use—no removing and storing and no hunting proper screen for each particular window.

#### MORE AVAILABLE LIGHT

When Casement Rol-Up Screens are used, only the ventilating units are covered, leaving the stationary side lights and transoms free. When the ventilator is closed, the screen may be rolled up, leaving the entire casement unobstructed.

#### LOW COST

Due to standardized design and volume production, the cost of the Casement Rol-Up Screen has been lowered to a point within the reach of every user of Truscon Steel Casements. Installation is simple, only a few minutes being required to install the screen.

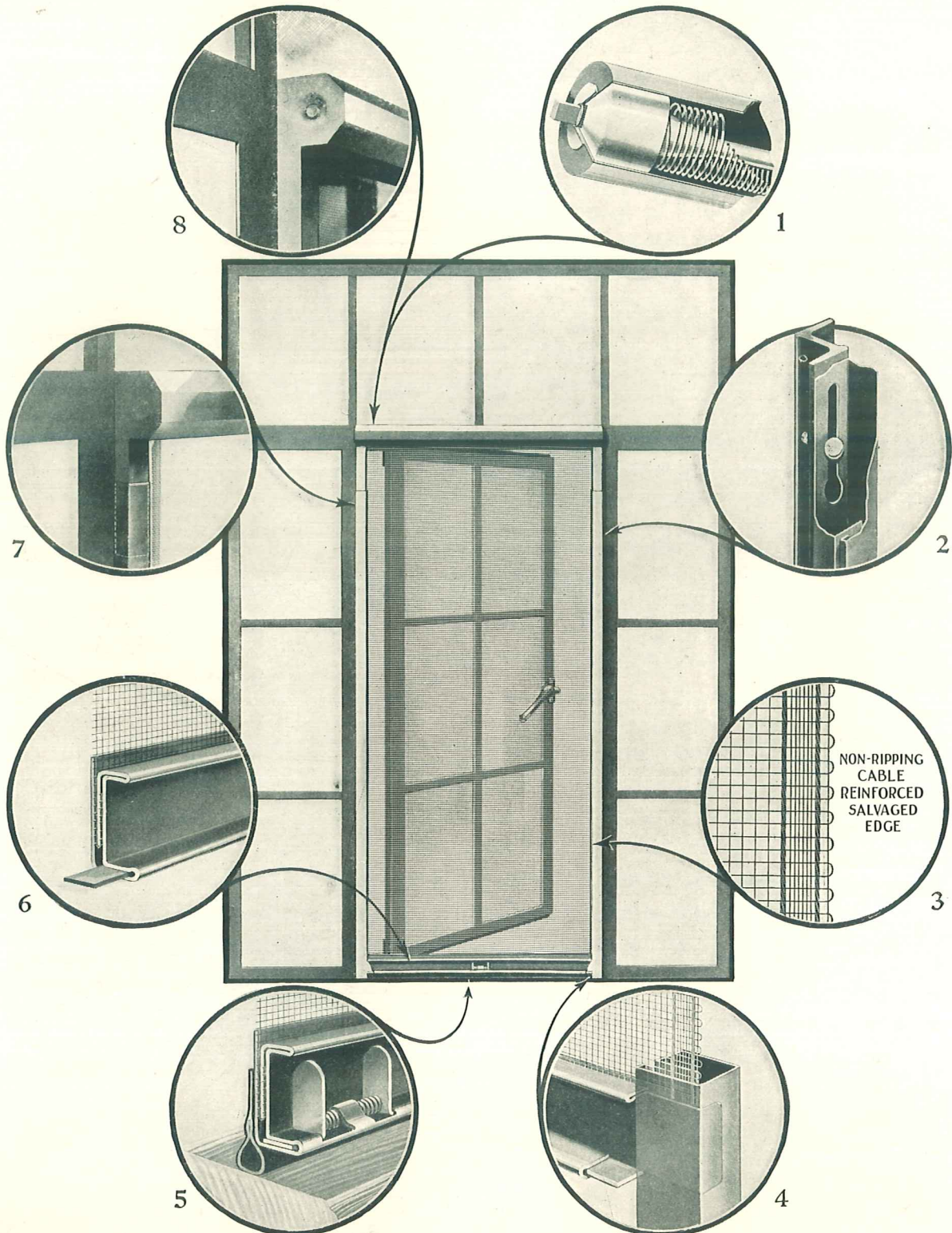


CASEMENT  
*Rol-up*  
SCREENS



## CASEMENT ROL-UP SCREEN CONSTRUCTION FEATURES

(DESCRIBED ON OPPOSITE PAGE)





## CASEMENT ROL-UP SCREEN CONSTRUCTION FEATURES

(ILLUSTRATED ON OPPOSITE PAGE)

**1 Operating Mechanism**—Made to Truscon specifications, with heavy bearings and special oversize tempered coil spring, properly lubricated. A heavy steel mandrel runs the full length of the roller, assuring maximum strength and rigidity.

**2 Screw Slot**—Six screws project slightly from the casement frame and engage in slots in the screen. The guides and housing have vertical adjustments sufficient to allow for any stool and head condition, thus eliminating cutting or fitting. When the six screws are tightened, the entire screen is firmly fixed in place.

**3 Wire Cloth**—The 16 mesh "Silver Finish" wire cloth is drawn and woven to Truscon specifications, incorporating special features to meet the exacting requirements necessary for a long life roller screen. The greater tensile strength of the horizontal strands reduces sagging and bulging to a minimum and the soft vertical strands are an added safeguard against rupture due to crystallization. An extra heavy and reinforced selvaged edge strengthens the screen. Exhaustive tests have proved that this type of wire cloth has no equal for roll screen use.

**4 Interlocking Bottom Rail**—The right angle projections at each end of the bottom rail interlock with the guides, keeping the rail always in a correct operating position, and assuring an even pull on the screen at all times. The rail cannot pull out of the guides.

**5 Flexo Rubber Cushion**—A double ply Flexo Rubber Cushion is installed under the bottom rail. This cushions the screen as it is drawn down and protects the finish of the stool. It also serves to take up any unevenness in the stool, thus preventing insects from crawling under the rail.

**6 Section of Bottom Rail**—The double ribbed bottom rail insures sufficient strength and rigidity for all widths of screens. The lower rib is wider than the upper and is made with a slight upward bend to provide the proper grip when pulling down on the screen. The rail is made in one piece, so formed that each vertical strand of wire cloth is locked securely in place.

**7 End Cap Projection**—The Telescoping End Cap Projection is a distinctive feature, found in no other screen, which allows the necessary vertical adjustments to take care of all installation conditions. The End Projection fits neatly into the guides permitting the use of the same standard screen regardless of whether the housing is attached to the transom bar or below the head jamb.

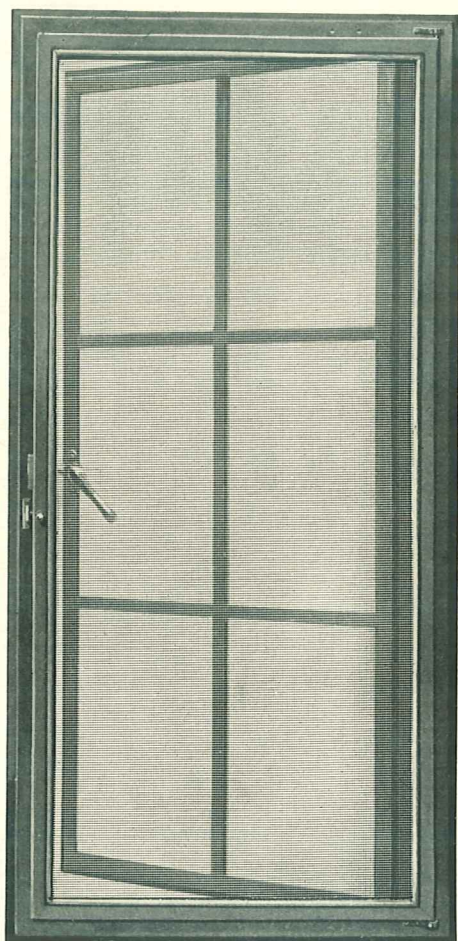
**8 Hexagon Housing**—The small hexagon housing is only  $1\frac{1}{2}$  inches high and is so neat and inconspicuous that it appears as an integral part of the casement frame. End caps are distinctive in appearance and have a perfect flush joint. A special feature provides for a free lowering of the screen until within four or five inches of the stool when the wire cloth tightens against the housing, making the screen absolutely insect proof.



## CASEMENT SIDE-HINGED SCREENS

HERE are many conditions where the particular advantages of a flat type screen are desirable for the screening of casements. Among these are screens for hospitals, offices, hallways of apartments and for general screening where the items of low cost, permanence and simplicity of operation are important. To meet these conditions Truscon has developed an efficient, economical side-hinged all-metal screen for exclusive use with the Truscon Standard Casement.

The simplicity and attractiveness of the "Casement Side-Hinged Screen," both in design, installation and operation, is noteworthy. No carpenter work, no special fitting and no special mouldings are necessary, thus the economy of first cost is augmented by the economy of installation.



CASEMENT

SIDE HINGED  
SCREENS

### ALLOW FULL DEPTH OF REVEAL

Screens are flush against the casement frame, instead of protruding out 2 inches or more. Greater room beauty results.

### SIMPLE OPERATION

One finger will open or close the screen. As easy to operate as a perfect fitting cupboard door.

### EASY TO INSTALL

No special window frame construction necessary. Only six screws are needed to attach the hinges and keeper directly to the frame of the casement. No carpenter work, no special fitting and no special mouldings are required.

### LOW COST—STANDARD SIZES

"Casement Side-Hinged Screens" are made in standard sizes so that the benefits of volume production are reflected in the price with the result that they cost less than ordinary wood screens. Screens for similar sized openings are completely interchangeable.

### PERMANENT

Frames are extra sturdy and the wire cloth is made of enduring bronze. Being on the inside of the window, the screen is protected from the weather and can be easily removed.

### NARROW FRAMES

The use of tubular steel frames with reinforced corners permits a great reduction in bulk as compared with the usual flat screen. The frame fits tightly against the casement, making the screen insect-proof, and in no way obstructing the window opening.

### SIMPLE POSITIVE HARDWARE

The screen hardware consists of two pivot hinges and a keeper which are attached to the casement frame, and a positive locking catch and two pivot pins which are integral with the screen.



# Truscon Standard Steel Casements - Model No. 5

|           |           |            |            |           |           |           |           |
|-----------|-----------|------------|------------|-----------|-----------|-----------|-----------|
| 2'-3 1/4" | 1'-1 1/2" | 1'-7 1/4"  | 3'-1 1/2"  | 3'-1 1/2" | 4'-7 5/8" | 4'-7 5/8" | 6'-1 3/8" |
| 1212L-R   | 2214L-R   | 4214VC-L-R | 4224       | 6224      | 6224VC    | 8224VC    |           |
| 3'-3 1/2" | 1313L-R   | 2316L-R    | 4316VC-L-R | 4326      | 6326      | 6326VC    | 8326VC    |
| 4'-3 3/4" | 1413L-R   | 2416L-R    | 4416VC-L-R | 4426      | 6426      | 6426VC    | 8426VC    |
| 4'-3 3/4" | 1414L-R   | 2418L-R    | 4418VC-L-R | 4428      | 6428      | 6428VC    | 8428VC    |
| 5'-4"     | 1514L-R   | 2518L-R    | 4518VC-L-R | 4528      | 6528      | 6528VC    | 8528VC    |
| 6'-1 1/2" | 1614L-R   | 2618L-R    | 4618VC-L-R | 4628      | 6628      | 6628VC    | 8628VC    |

## NOTE -

SCREENS ARE STOCK TYPE, AND READY FOR PROMPT DELIVERY  
 IN ORDERING SCREENS USE NOMENCLATURE OF CASEMENT UNIT  
 HAND OF SCREEN IDENTICAL TO HAND OF WINDOW (RIGHT HAND WINDOW TAKES A RIGHT HAND SCREEN)  
 SCREENS CAN BE FURNISHED FOR VENTED TRANSOMS USING STANDARD CAM HANDLE, HARDWARE  
 SEE SPECIFICATIONS FOR FURTHER INFORMATION

SHADED  
 PORTION  
 INDICATES  
 SCREENS

**TRUSCON**  
 STEEL WINDOWS

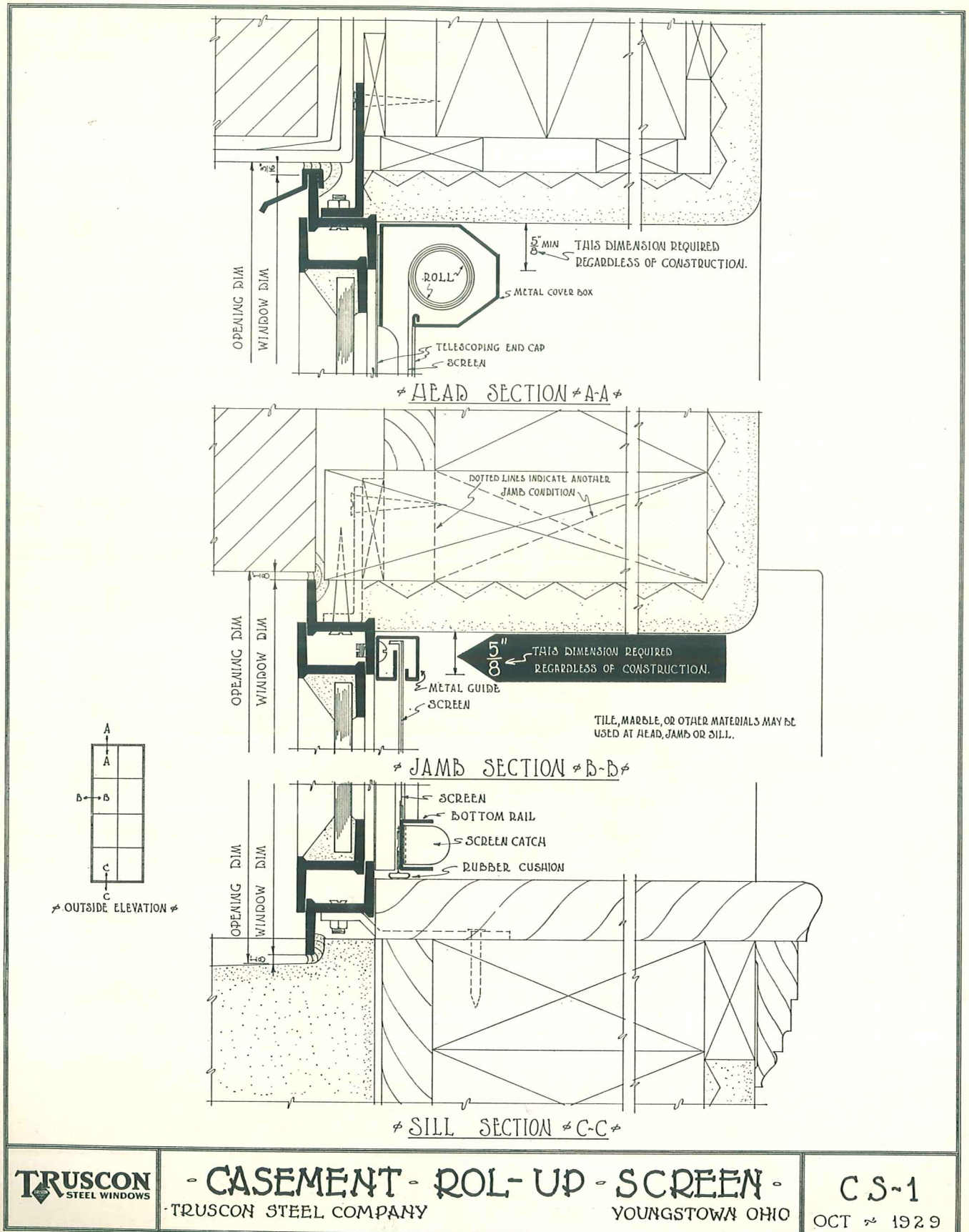
**-TRUSCON-CASEMENT-SCREENS-**

TRUSCON-STEEL-COMPANY • TYPES & SIZES FOR • ROL-UP & SIDE-HINGED SCREENS • YOUNGSTOWN-OHIO

**CS-4**  
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Truscon Standard Steel Casements ~ Model No. 5



TRUSCON  
STEEL WINDOWS

- CASEMENT - ROL-UP - SCREEN -  
TRUSCON STEEL COMPANY

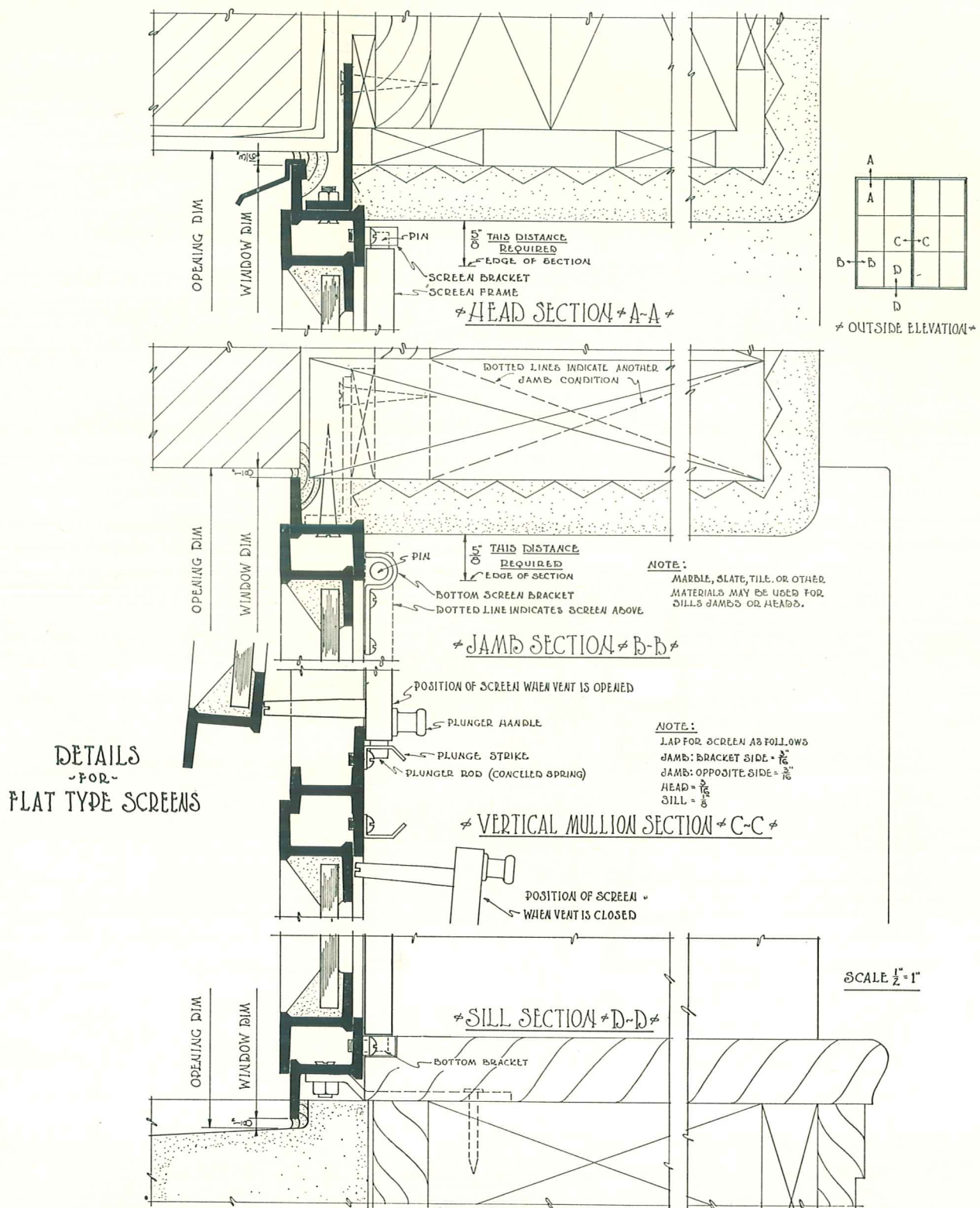
YOUNGSTOWN OHIO

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OCT ~ 1929



Truscon Standard Steel Casements ~ Model No. 5



**TRUSCON**  
STEEL WINDOWS

**- CASEMENT - SIDE-HINGED - SCREEN -**  
TRUSCON STEEL COMPANY  
YOUNGSTOWN OHIO

**CS-3**

OCT 28 1929



## SPECIFICATIONS CASEMENT ROL-UP SCREEN

### GENERAL

- 1 All Truscon Steel Casement Windows as shown on drawings, unless otherwise specified, shall be equipped with "Casement Rol-Up Screens," as furnished by Truscon Steel Company of Youngstown, Ohio.

### SCOPE OF WORK

- 2 The contractor shall include in his work the furnishing and installing of all "Casement Rol-Up Screens" on Truscon Standard Casements so prepared to receive same.

### MATERIAL

- 3 All exposed and working parts shall be of rust-resisting alloy steel. Wire screen cloth shall be especially woven 16-mesh Silver Finish, so manufactured as to have stiff horizontal strands to provide rigidity and soft vertical strands to withstand constant rolling action. All selvage edges shall be reinforced with additional vertical strands. (See Note 2.)

### CONSTRUCTION

- 4 (A) Housing shall be of hexagonal shape  $1\frac{3}{4} \times 1\frac{1}{2}$  inches with end caps provided with a  $4\frac{1}{2}$  inch telescoping projection.  
(B) Guides shall be  $\frac{5}{8}$  inches wide and  $1\frac{1}{16}$  inch deep and so designed as to constantly interlock the bottom rail.

(C) The bottom rail shall be of reinforced double-ribbed construction with right angle end projection interlocking with guides. A double ply Flexo-Cushion shall be installed in all bottom rails to assure perfect stool contact. The bottom rail shall be equipped with a positive locking device.

(D) Roller mechanism shall be of all-metal construction with a  $\frac{1}{4}$  inch solid steel mandrel running the entire length of roller and provided with special alloy steel bearing and high tension spring wire capable of maintaining a sufficient and constant pull.

### FINISH

- 5 All "Casement Rol-Up Screens" shall receive an electroplated antique bronze finish.

### ERECTION

- 6 The contractor shall install "Casement Rol-Up Screens" upon the inside frames of prepared Truscon Standard Casements, and shall see that each screen is properly adjusted according to installation details. (See Note 3.)

(Where so desired, the Erection Division of the Truscon Steel Company will contract for the installation of all "Casement Rol-Up Screens.")

NOTES:—1. Average shipping weight approximately nine pounds per screen unit.

2. "Silver Finish" wire cloth is a product especially woven to our own specifications, incorporating certain features to meet the exacting requirements for a long-life roller screen. The greater tensile strength of its horizontal strands reduces sagging to a minimum. The soft vertical strands are an added safeguard against rupture due to crystallization in the constant action of rolling. Its weather-resisting properties are equal, if not superior, to any wire cloth. Bronze cloth may be supplied, if desired, but for reasons stated above "Silver Finish" wire cloth is recommended for roller screens.

3. Architects and Contractors should take particular care to see that very little of the plaster, tile or wooden trim overlaps the steel casement frame. A minimum of  $\frac{3}{8}$  inch of the casement frame must be left exposed to provide space for the "Casement Rol-Up Screen" Metal Guides. (See Plate CS-1, Page 46.)

## SPECIFICATIONS CASEMENT SIDE-HINGED SCREENS

### GENERAL

- 1 All Truscon Standard Casements Model No. 5 as shown on drawings, unless otherwise specified, shall be equipped with "Casement Side-Hinged Screens" as furnished by Truscon Steel Company of Youngstown, Ohio.

### SCOPE OF WORK

- 2 Contractor shall include in his work the furnishing and installing of all "Casement Side-Hinged Screens" on Truscon Standard Casements so prepared to receive same. (See Detail.)

### MATERIALS

- 3 (A) Frame shall be of cold-rolled galvanized steel, 20-gauge.  
(B) Wire cloth shall be of 16-gauge mesh, antique finish solid bronze.

### CONSTRUCTION

- 4 Frames shall be  $\frac{3}{8}$  inches in depth and 1 inch in width, of tubular construction, and all corners shall be reinforced.

Frames shall be provided with a removable spline so as to make it easily re-screenable. Pivot rods shall be provided on each end. The lower pivot rod shall be adjustable so that the screen can be easily removed. Necessary hardware for installing and positive locking catch shall be provided.

### FINISH

- 5 All "Casement Side-Hinged Screens" shall receive one standard shop protective coat at factory.

### ERECTION

- 6 The contractor shall install each and every "Casement Side-Hinged Screen" on the inside frame of prepared Truscon Standard Casements and see that each screen is properly fitted and adjusted according to installation details. (See Note 2.)

(Where so desired, the Erection Division of the Truscon Steel Company will contract for the installation of all "Casement Side-Hinged Screens.")

NOTES:—1. Average shipping weight six pounds per screen unit.

2. Architects and contractors should take particular care to see that very little of the plaster, tile or wooden trim overlaps the steel casement frame. A minimum of  $\frac{3}{8}$  inch of the casement frame must be left exposed to provide space for the "Casement Side-Hinged Screen" Metal Guides. (See Plate CS-3, Page 47.)



**TRUSCON**  
**STANDARD**  
**CASEMENTS**  
MODEL NUMBER FIVE